CRANE

PLUMBING
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Founded by R. T. Crane - 1855

CRANE CO.

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CRANE CO.

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CHICAGO, ILLINOI

Issued To E A. Christy

PRICE LIST APPLYING TO No. 675-C CATALOG

PRICES GIVEN BELOW WILL BE HELPFUL IN APPROXIMATING COSTS, OR COMPARING THE COST OF ONE FIXTURE WITH ANOTHER. ALL FIXTURES ARE PRICED COMPLETE, READY FOR INSTALLATION EXCEPT WHERE OTHERWISE NOTED.

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PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE	
	MARBLE LAVATORIES AND DRESSING TABLES		Brushed Finish Gold Plated Trimmings	
1-A	C 90, *Commode*.....	52x26½x11¼	$1177.00	
		36x27x2½	914.00	
	C 100, *Neumar*.....	42x27x2½	938.00	
		52x27x2½	978.00	
		36x27x2½	501.00	
	C 102, *Neumar*.....	42x27x2½	522.00	
		52x27x2½	559.00	
		36x25x2	728.00	
1-B	C 118, *Modmar*.....	42x25x2	749.00	
		48x25x2	769.00	
			Chromium Plated Trimmings	
		36x25x2½	$263.00	
	C 120, *Marmor*.....	42x25x2½	280.00	
		52x25x2½	307.00	
			White Chrom. Plated	Colored Chrom. Plated
	CHINA LAVATORIES			
1-C	C 126, *Neuvogue*.....	27x22	$78.15	$93.45
	C 128, *Neuvogue*.....	27x22	94.70	110.00
1-D	C 200, *Neuvogue*.....	27x22	66.90	87.50
1-E	C 129-L13, *Diana*.....	24x20	54.75	64.95
		27x21	64.30	79.30
1-F	C 167, *Drexel*.....	22x18	50.30	63.20
		27x21	59.10	77.75
	C 168, *Drexel*.....	22x18	47.95	60.80
		27x21	56.75	75.40
1-1	C 138, *Corwith*.....	33x24	145.50	180.45
		36x24	163.65	207.65
		42x24	190.70	248.25
	IF LESS TOWEL BARS ON C 138.....DEDUCT $22.00			
	C 144, *Corwith*.....	Disc.		
	C 147, *Corwith*.....	Disc.		
	C 151, *Elegia*.....	Disc.		
1-2	C 153, *Trentonian*....	Disc.		
	C 154, *Norwich*.....	20x18	41.85	48.95
		24x21	47.50	57.95
		27x22	55.65	70.95
	C 159, *Norwich*.....	20x18	39.55	46.65
		24x21	45.20	55.65
	IF LESS TOWEL BARS ON C 154 OR C 159 DEDUCT.....$5.00			
	*C 165, *Norwich*.....	24x21	61.45	71.90
		27x22	69.55	84.85
		30x24	88.95	115.85
	C 166, *Norwich*.....	20x18	47.30	54.35
		24x21	52.95	63.35

PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE	
			White Chrom. Plated	Colored Chrom. Plated
	VITREOUS CHINA LAVATORIES -Continued			
1-2	C 169, *Corwith*.....	Disc.		
	C 171, *Corwith*.....	23½x17½	$52.85	$64.80
2-1	C 172, *Corwith-Compeer*.	Disc.		
	C 174, *Cromwell*.....	26x14	45.00	57.40
	C 641, *Cromwell*.....	26x14	37.95	50.35
	C 178, *Corwith*.....	Disc.		
	C 394, *Corwith*.....	Disc.		
	C 180, *Sterling*.....	20x18	40.75	53.65
		24x21	42.65	55.80
2-2	C 181, *Compeer*.....	Disc.		
	C 184, *Norwich*.....	18x15	36.60	44.80
		20x18	37.00	45.45
		24x21	44.50	57.45
	C 185, *Norwich*.....	18x15	34.30	42.50
		20x18	34.70	43.10
		24x21	42.20	55.10
	*C 186, *Norwich*.....	24x21	52.20	65.10
	C 211, *Elegia*.....	Disc.		
	C 216, *Trentonian*.....	Disc.		
	C 217, *Trentonian*.....	Disc.		
2-2A	C 281, *Coronet* WITH WHITE OR IVORY CABINET.....	24x20	≠60.20	≠72.70
	≠CABINET F.O.B. CHICAGO..			
2-2B	C 635, *Corwith*.....	23½x17½	65.05	---
	C 636, *Corwith*.....	23½x17½	55.85	---
	C 637, *Corwith*.....	23½x17½	49.45	---
3-1	C 221, *Corwith*.....	Disc.		
	*C 255, *Norwich*.....	24x21	52.00	67.85
		27x22	60.10	80.85
		30x24	79.50	111.85
	C 257, *Norwich*.....	24x21	42.35	58.25
	C 259, *Norwich*.....	24x21	43.05	58.95
		27x22	51.20	71.95
	C 261, *Norwich*.....	24x21	37.85	53.75
		27x22	46.00	66.75
	C 262, *Norwich*.....	24x21	42.00	57.85
	C 263, *Norwich*.....	24x21	40.35	56.25
	C 390, *Corwith*.....	Disc.		
	C 408, *Norwich*.....	20x18	35.45	---
	*C 425, *Norwich*.....	24x21	47.60	---
		27x22	59.70	---
		30x24	79.05	---

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PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE	
	VITREOUS CHINA LAVATORIES —Continued		Chromium Plated	
			White	Colored
3-2	C 426, *Norwich*.....	20x18	$27.90	---
		24x21	33.50	---
		27x22	45.55	---
	C 427, *Norwich*.....	20x18	32.00	---
		24x21	37.60	---
4-1	C 507, *Norwich*.....	20x18	32.05	$43.20
		24x21	39.55	55.20
	C 508, *Norwich*.....	20x18	30.45	41.55
		24x21	37.95	53.55
	C 509, *Norwich*.....	20x18	34.35	45.50
		24x21	41.85	57.50
	C 510, *Norwich*.....	20x18	27.95	39.20
		24x21	35.45	51.05
	C 511, *Norwich*.....	20x18	35.70	46.80
		24x21	43.20	58.80
	*C 512, *Norwich*.....	24x21	49.55	65.20
	C 589, *Sterling*.....	20x18	38.10	53.75
		24x21	40.00	55.95
	C 591, *Sterling*.....	20x18	36.50	52.10
		24x21	38.35	54.30
	C 594, *Corwith*.....	Disc.		
4-2	C 597, *Norwich*.....	20x18	31.95	41.75
		24x21	37.55	50.80
	C 599, *Norwich*.....	20x18	34.25	44.05
		24x21	39.85	53.15
		27x22	48.00	66.15
	C 601, *Norwich*.....	20x18	31.05	40.90
		24x21	36.70	49.95
		27x22	44.80	62.95
	C 602, *Norwich*.....	20x18	35.55	45.40
		24x21	41.20	54.45
	*C 603, *Norwich*.....	24x21	47.55	60.80
		27x22	55.70	73.80
	C 646, *Russell*.....	24x21	47.65	---
	C 651, *Hermitage*.....	20x13½	23.30	31.65
		26x13½	26.00	35.95
	C 652, *Hermitage*.....	20x13½	27.00	35.30
		26x13½	29.70	39.65
	C 654, *Hermitage*.....	20x13½	27.30	35.60
		26x13½	30.00	39.95
5-1	C 683, *Ipswich*.....	17x17	30.70	43.45
	C 684, *Ipswich*.....	17x17	33.20	45.95

PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE	
	VITREOUS CHINA LAVATORIES —Continued		Chromium Plated	
			White	Colored
5-1	C 685, *Ipswich*.....	17x17	$34.80	$47.55
	C 686, *Ipswich*.....	17x17	35.20	47.95
	C 697, *Corwith*.....	12¼x12¼	37.95	---
	C 698, *Corwith*.....	12¼x12¼	36.30	---
	C 699, *Corwith*.....	12¼x12¼	33.80	---
	C 755, *Norwich*.....	18x15	25.65	33.80
		20x18	26.00	34.45
		24x21	33.50	46.45
	C 757, *Norwich*.....	18x15	27.25	35.45
		20x18	27.65	36.05
		24x21	35.15	48.05
	C 758, *Norwich*.....	18x15	23.15	31.30
		20x18	23.50	31.95
		24x21	31.00	43.95
	C 759, *Norwich*.....	20x18	28.00	36.45
		24x21	35.50	48.45
	*C 760, *Norwich*.....	24x21	45.15	58.05
	C 801, *Chelsea*.....	20x18	25.65	---
	C 802, *Chelsea*.....	20x18	28.00	---
	C 865, *Arcus*.....	Disc.		
	C 866, *Arcus*.....	Disc.		
5-2	C 1114, *Parvus*.....	14¼x13	20.50	---
	C 1115, *Parvus*.....	14¼x13	17.20	---
	C 1116, *Parvus*.....	14x14	24.50	---
	C 1117, *Parvus*.....	14x14	21.20	---
	C 1213, *Corwith*.....	16x15	32.70	41.70
	C 1223, *Dentrix*.....	12x12	22.80	29.40

PAGE	VITREOUS CHINA LAVATORIES IN BATTERIES, LESS TRAP, VENT & WASTE PIPE	SIZE	WHITE Chromium Plated
6-1	C 1485, *Norwich*.....	24x21	
	BATTERY OF 4...		$152.25
	BATTERY OF 6...		225.20
	BATTERY OF 8...		298.10
	C 1501, *Monroe*.....	18x17	
	BATTERY OF 4...		99.50
	BATTERY OF 6...		146.05
	BATTERY OF 8...		192.60
	C 1511, *Monroe*.....	18x17	
	BATTERY OF 2...		63.10
	BATTERY OF 3...		92.50

ALL LAVATORIES MARKED WITH AN ASTERISK (*) CAN BE FURNISHED WITH *Rival* VALVES.....DEDUCT 3.45

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PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE Chromium Plated White	PRICE Chromium Plated Colored
	VITREOUS CHINA MANICURE TABLE			
6-2	C 1804, *Ipswich*.....	32x18	$58.90	---
	VITREOUS CHINA BARBER AND BEAUTY SHOP LAVATORIES			
	C 1846, *Norwich*.....	24x26½	71.50	---
	C 1874, *Sterling*.....	24x21	App'l	---
7-1	C 1878, *Beautician*.....	23½x18½	App'l	---
	C 1883, *Ipswich*.....	17x17	App'l	---
	PORCELAIN ENAMELED CAST-IRON BARBER LAVATORY			
	C 1910, *Corwith*.....	24x20	App'l	---
		27x22	App'l	---
	SHAMPOO FIXTURES AND HAIR INTERCEPTOR		Chromium Plated	
	C 33-012-N, *Improved Agilis*...	½	$11.15	
	C 33-808, P.O. PLUG WITH STRAINER.	1¼	App'l	
		1½	App'l	
	C 33-920, SEDIMENT TRAP.....	1½	20.00	
	TOWEL BARS FOR LAVATORIES			
7-2	C 33-662, DESIGN 40.....PR.		11.25	
	C 33-665, HANDY.....PR.		5.00	
	C 33-666, HANDY SQ.....PR.		5.00	
	LAVATORY LEGS			
	C 33-676-C.....PR.		18.30	
	C 33-676-M.....PR.		18.30	
	C 33-677, *Rival*.....PR.		7.05	
	C 33-678, *Rival Hex*.....PR.		7.05	
	C 33-722-MM.....PR.		16.70	
	C 33-723, *Corwith*.....PR.		10.00	
	C 33-725-AC.....PR.		34.15	
	C 33-725-AM.....PR.		34.15	
	C 33-726-C.....PR.		20.65	
	C 33-726-M.....PR.		20.65	

PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE Chromium Plated
	LAVATORY BRACKETS		
7-2	C 33-714, PORCELAIN ENAMELED FOR 20-INCH LAVATORIES.....PR.		$ 6.70
	FOR 24-INCH LAVATORIES AND LARGER.....PR.		10.60
	C 33-717, PORCELAIN ENAMELED.....PR.		2.20
	C 33-718-M, BRASS, ADJ.....PR.		10.80
	C 33-719, BRASS.....PR.		2.20
	C 33-720, BRASS.....PR.		2.20
	TRIMMINGS FOR LAVATORIES		
8-1	RD 9.....		App'l
	RD 11.....		App'l
	RD 9, DESIGN 40.....		App'l
	L 9.....		$17.80
	*L 11.....		17.80
	L 12.....		17.80
	L 9, DESIGN 40.....		26.25
	L 9, DESIGN 45.....		Disc.
	L 12, DESIGN 50.....		Disc.
8-2	K 9.....		21.80
	R 1.....		14.80
	R 4.....		9.30
	R 5.....		8.20
	R 6.....		Disc.
	R 7.....		Disc.
	R 8.....		12.70
	R 9.....		11.45
	R 10.....		11.45
	U 9.....		15.05
	V 12, (WITH OFFSET REDUCERS).....		7.80
	V 14, (WITH OFFSET REDUCERS).....		6.20
9-1	WM 11.....		10.15
	W 5.....		5.80
	X 5.....		7.40
	P 4.....		4.80
	P 5.....		3.70
	P 6.....		Disc.

* IF WITH *Rival* VALVES DEDUCT $ 3.45

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PAGE	PLATE NUMBER AND DESCRIPTION	PRICE
	TRIMMINGS FOR LAVATORIES —Continued	Chromium Plated
9-1	P 7	Disc.
	P 8	$8.20
	P 9	6.95
	P 10	6.95
	P 17	Disc.
	P 18	3.50

PAGE	CABINET LAVATORIES WITH WHITE OR IVORY CABINETS	SIZE	Chromium Plated		
			White		Colored
			Reg.	A. R.	A. R.
10-1	C 1991	24x20	---	$40.55*	$42.70*
	C 2001 WITH TYPE "A" CABINET	24x20	$42.35*	43.75*	46.05*
	WITH TYPE "C" CABINET		Disc.		
	C 2001 WITH TYPE "B" CABINET	27x22	Disc.		
	WITH TYPE "D" CABINET		Disc.		
10-2	C 2158, *Rhodile*	20x18	32.85*	33.95*	35.60*
	C 2171, *Cabelo*	21x17	31.25*	32.30*	34.10*
	C 2504, *Neuday*	19x17	34.05*	35.10*	37.45*
		24x18	37.20*	38.50*	41.20*
	FOR CABINETS IN OTHER COLOR THAN IVORY..ADD		2.50	2.50	2.50
	C 33-669, TOWEL BAR, EA.		1.00	--	--
	C 33-671, TOWEL BAR, EA.		1.55	--	--
	C 33-673, TOWEL BAR, EA.		2.20	--	--
	*CABINET F.O.B. CHICAGO				

PAGE	ENAMELED CAST-IRON LAVATORIES COMPLETE AS DESCRIBED	SIZE	Chromium Plated		
			White		Colored
			Reg.	A. R.	A. R.
11-1	C 1995-V12, *Corwith*	24x20	34.00	35.40	37.70
		27x22	44.00	46.70	51.05
	C 1995-WM11, *Corwith*	24x20	36.30	37.70	40.00
		27x22	46.30	49.00	53.40
	C 2000-L13, *Corwith*	24x20	40.45	43.00	47.20
		27x22	50.45	54.25	60.55
	C 2005, *Corwith*	24x20	33.90	36.45	40.65
		27x22	43.90	47.70	54.00
	C 2006, *Corwith*	24x20	36.20	38.75	42.95
		27x22	46.20	50.00	56.30
	C 2007, *Corwith*	24x20	31.90	34.45	38.65
		27x22	41.90	45.70	52.00
	C 2008, *Corwith*	24x20	29.25	31.80	36.00
11-2	C 2502, *Neuday*	19x17	33.95	35.00	37.30
		24x18	35.80	37.15	40.00
	IF LESS TOWEL BARS. DED.		5.00	5.00	5.00

PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE		
	ENAMELED CAST-IRON LAVATORIES COMPLETE AS DESCRIBED —Continued		Chromium Plated		
			White		Colored
			Reg.	A. R.	A. R.
11-2	C 2051, *Corona*	24x20	$28.65	$30.00	---
		27x22	38.60	41.25	---
	C 2052, *Corona*	24x20	31.00	32.30	---
		27x22	40.95	43.55	---
	C 2053, *Corona*	24x20	26.65	28.00	---
		27x22	36.65	39.25	---
	C 2054, *Corona*	24x20	23.95	25.30	---
	C 2055, *Corona*	24x20	35.65	37.00	---
		27x22	45.65	48.25	---
11-3	C 2500, *Neuday*	19x17	21.90	22.95	$25.25
		24x18	23.75	25.05	27.90
	C 2151, *Rhodile*	20x18	22.25	23.30	25.15
	C 2152, *Rhodile*	20x18	20.65	21.70	23.50
	C 2153, *Rhodile*	20x18	20.25	21.30	23.15
	C 2154, *Rhodile*	20x18	24.55	25.65	27.45
	C 2155, *Rhodile*	20x18	17.45	18.50	20.30
	C 2164, *Colorado*	21x17	20.65	21.70	---
		24x18	22.80	24.20	---
	C 2165, *Colorado*	21x17	22.25	23.30	---
		24x18	24.45	25.80	---
	C 2166, *Colorado*	24x18	24.80	26.20	---
	C 2167, *Colorado*	21x17	17.45	18.50	---
		24x18	19.65	21.00	---
	C 2168, *Colorado*	21x17	24.55	25.65	---
		24x18	26.75	28.15	---
	C 2169, *Colorado*	21x17	20.25	21.30	---
		24x18	22.45	23.80	---
11-4	C 2206, *Nevada*	24x20	22.65	---	---
	C 2207, *Nevada*	24x20	27.80	---	---
	C 2208, *Nevada*	24x20	25.45	---	---
	C 2209, *Nevada*	24x20	29.75	---	---
	C 2244, *Norfolk*	21x18	20.65	---	---
	C 2245, *Norfolk*	21x18	22.25	---	---
	C 2246, *Norfolk*	21x18	22.65	---	---
	C 2247, *Norfolk*	21x18	17.45	---	---
	C 2248, *Norfolk*	21x18	20.25	---	---
	C 2249, *Norfolk*	21x18	24.55	---	---
	C 2252, *Carolina*	19x17	19.40	---	---
	C 2253, *Carolina*	19x17	21.00	---	---
	C 2254, *Carolina*	19x17	16.20	---	---
	C 2255, *Carolina*	19x17	19.00	---	---
	C 2256, *Carolina*	19x17	23.30	---	---

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PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE Chromium Plated / White Regular
	ENAMELED CAST-IRON LAVATORIES COMPLETE AS DESCRIBED — Continued		
11-4	C 2315, *Kent*.....	16½x16½	$23.50
		19x19	26.00
	C 2316, *Kent*.....	16½x16½	25.15
		19x19	27.65
	C 2317, *Kent*.....	16½x16½	20.30
		19x19	22.80
	C 2318, *Kent*.....	16½x16½	23.15
		19x19	25.65
	C 2319, *Kent*.....	16½x16½	25.50
		19x19	28.00
12-1	C 2349, *Eaton*.....	16½x16½	20.00
	C 2350, *Eaton*.....	16½x16½	22.80
	C 2361, *Rugby*.....	15½x15½	21.20
	C 2371, *Closin*.....	26x14	26.25
	C 2372, *Closin*.....	26x14	21.90
	C 2401, *Fairfax*.....	19x17	15.95
		21x18	17.20
	C 2402, *Fairfax*.....	21x18	20.00
	C 2412, *Wilton*.....	15x16	15.65
	ENAMELED PRISON LAVATORIES		
12-2	C 2450, *Betterday*.....	15x16	18.20
	C 2454, *Betterday*.....	15x16	17.30
	EARTHENWARE BASINS		
	C 2460.....ROUND	14	4.15
	OVAL	14x17	8.05
	OVAL	15x19	10.55
	C 2490, *Westland* LAVATORY.....	20x19	11.05

PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE WHITE Regular Enamel	PRICE WHITE A.R. Enamel
	BATTERY LAVATORIES			
12-3	C 2521, *Austin*....BATTERY OF 2 / BATTERY OF 4	20x16		
	C 2525, *Corona*....BATTERY OF 4 / BATTERY OF 6	24x20	App'l	
	C 2528, *Corona*....BATTERY OF 2 / BATTERY OF 3	24x20		
	PORCELAIN ENAMELED CAST-IRON WASH SINKS			
13-1	*C 2582..... (ROUGH C.P.)	48x30	$97.95	103.05
		60x30	131.45	138.70
		72x30	138.30	146.45
	*C 2591..... (ROUGH C.P.)	48x30	68.20	73.25
		60x30	91.40	98.65
		72x30	98.25	106.30
14-1	C 2640..... (ROUGH C.P.)	36x18	52.75	57.40
		48x18	63.45	69.30
		60x18	78.15	85.65
		72x18	85.15	92.90
	C 2650..... (ROUGH C.P.)	36x18	52.25	57.40
		48x18	63.00	68.75
		60x18	76.80	84.30
		72x18	83.80	91.55
	*FOR ENAMELED PEDESTALS..ADD		18.10	---
13-1	C 32-912 ROUGH NICKEL PLATE...	NN	5.20	---
	C 32-912 ROUGH CHROMIUM PLATE....	NN	5.75	---
	C 32-940-N, ROUGH NICKEL PLATE.	NN	4.40	---
	C 32-940-N, ROUGH CHROM. PLATE..	NN	4.80	---
14-1	C 32-932, ROUGH NICKEL PLATE..	NN	6.05	---
	C 32-932, ROUGH CHROMIUM PLATE.	NN	6.40	---
	C 32-905, ROUGH NICKEL PLATE..	NN	5.20	---
	C 32-905, ROUGH CHROM. PLATE..	NN	5.45	---
	C 2620-D.....		.50	---

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PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	WHITE REG.	WHITE A.R.	COLORED A.R.	SHPG. WGT.
	PORCELAIN ENAMELED CAST-IRON BATHS					
16-1	C 3190-N1, *Neuvogue Receptor*.....	4'	$117.05	$126.05	$135.05	570
	C 3190-C1E, *Neuvogue Receptor*.....	4'	318.00	327.00	336.00	870
16-2	C 3225-N1, *Neuvogue* CORNER.....	5'	110.00	117.20	129.15	550
		5½'	117.65	125.75	139.20	650
	C 3225-C1, *Neuvogue* CORNER.....	5'	96.45	103.65	115.55	550
		5½'	103.80	111.95	125.40	650
17-1	C 3240-N1, *Neuvogue* RECESS.....	5'	97.05	103.45	114.05	500
		5½'	103.75	110.95	122.90	570
	C 3240-C1, *Neuvogue* RECESS.....	5'	85.90	92.25	102.90	500
		5½'	92.45	99.65	111.55	570
17-2	C 3285-C1, *Coronova* CORNER.....	4½'	86.80	92.80	102.85	465
		5'	88,60	94.85	105.25	505
		5½'	95.05	102.10	113.80	555
		6'	125.70	136.60	147.40	605
	C 3285-R11, *Coronova* CORNER.....	4½'	61.85	67.85	77.90	435
		5'	63.70	69.95	80.35	475
		5½'	69.95	77.00	88.70	525
		6'	100.55	111.45	122.25	575
	C 3291, *Coronova* CORNER WITH EXPOSED TRIM ..	5'	75.50	81.75	92.15	475
		5½'	81.75	95.05	100.50	525
18-1	C 3306-R1, *Coronova* RECESS.....	4½'	65.75	70.95	79.50	415
		5'	69.25	74.80	84.05	445
		5½'	75.05	81.30	91.70	495
		6'	105.55	115.50	125.50	575
	C 3306-C11, *Coronova* RECESS.....	4½'	64.30	69.50	78.05	395
		5'	67.50	73.05	82.30	425
		5½'	73.05	79.30	89.70	475
		6'	102.75	112.75	122.70	555
	C 3306-R12, *Coronova* RECESS.....	4½'	52.85	58.05	66.60	395
		5'	56.05	61.60	70.85	425
		5½'	61.65	67.90	78.30	475
		6'	91.30	101.25	111.25	555
18-2	C 3330-C11, *Tarnia*.....	5'	63.80	68.85	77.35	355
		5½'	69.35	75.15	84.70	385
	C 3320, *Tarnia*.....	5'	78.35	83.40	91.90	355
		5½'	83.90	89.70	99.25	385

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PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE	SHPG. WGT.
19-1	C 3370-R12, *Verna*.....	4½'	$49.70	340
		5'	52.95	370
		5½'	58.50	415
	C 3400, *Doris*.....	4'	41.90	255
		4½'	39.40	330
		5'	42.80	345
		5½'	47.90	365
	C 3442, *Doris*.....	4'	27.80	220
		4½'	28.45	260
		5'	31.55	295
		5½'	35.40	345
	C 3464, *Medio*.....	4½'	27.55	240
		5'	30.70	255
		5½'	34.50	305

PAGE	BATH FIXTURE COMBINATIONS	PRICE
20-1	N1.....	$37.30
	R1.....	19.00
	R2.....	16.95
	C1.....	27.25
	C2.....	25.05
21-1	C5.....	48.55
	C6.....	46.40
	R5.....	25.50
	R6.....	23.45
	R9.....	21.95
22-1	N11.....	29.90
	R11.....	13.75
	R12.....	11.70
	C11.....	23.15
	C12.....	20.95
	R15.....	18.30

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE	SHPG. WGT.
	BATHTUB ENCLOSURES		
23-1	C 3480, SPRAYSHIELD:		
	CRYSTAL GLASS	$53.15	115
	PLATE GLASS	68.75	115
	SELECTED PLATE GLASS	81.25	115
	C 3485, ENCLOSURE: 5, 5½ OR 6'		
	SENIOR MODEL (HEAVY CHROMIUM PLATED BRASS FRAME).....	218.75	225
	ZEPHYR MODEL (ALUMINUM FRAME ALUMILITE FINISH).....	143.75	135
	OTHER STYLES - INFORMATION AND PRICES ON REQUEST.		

PAGE	LUCKE BATHTUB HANGERS For Recess Tubs	PRICE
24-1	102.....	$13.60
	104.....	12.20
	112.....	13.60
	113.....	12.20
	170.....	16.90
	300.....	11.25
	800.....	12.20
	For R.H. Corner Tubs	
	202.....	15.50
	204.....	14.05
	212.....	15.00
	214.....	13.60
	306.....	13.15
	For L.H. Corner Tubs	
	203.....	15.50
	207.....	14.05
	213.....	15.00
	215.....	13.60
	309.....	13.15
	C 3553, *Hol-Anchor* HANGERS.....PAIR	3.12

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PAGE	PLATE NUMBER AND DESCRIPTION	PRICE
	BATH AND SHOWER FIXTURES	
25-2	C 3845, *Rival* FOUR-VALVE COMBINATION.....	$18.20
	C 3851, *Neuvogue Deviator* COMBINATION....	28.15
	C 3865, *Rival Deviator* COMBINATION.....	13.20
	C 3865-R, *Rival Deviator* COMBINATION.....	13.20
	C 3885, *Criterion Deviator* COMBINATION...	19.75
26-1	**RECESSED SHOWERS**	
	C 4010, *Criterion*,, LESS RECEPTOR & DOOR..	85.40
	C 4012, *Rival*, LESS RECEPTOR.....	49.30
	C 4015, *Rival*, LESS RECEPTOR.....	43.30
	C 4025, *Rival Deviator* COMBINATION.....	13.20
	C 4025-E, *Rival Deviator* COMBINATION.....	13.20
	MIXING VALVE SHOWERS	
26-2	C 4150, *Criterion*.....	25.45
	C 4155, *Criterion*.....	33.25
	C 4185, WITH *Leonard* VALVE.....	62.50
	C 4188, WITH *Powers* VALVE.....	50.65
	C 4383, PRISON SHOWER.....	27.30
	C 4392, *Rival*.....	10.70
	C 4393, *Rival*.....	11.75
	TWO VALVE SHOWERS	
27-1	C 4265, *Rival*.....	9.30
	C 4265-R, *Rival*.....	9.30
	C 4285, *Criterion*.....	17.25
	C 4290, *Neuvogue*.....	22.50
	C 4408, Y.M.C.A.	20.90
	CRITERION SHOWER HEADS	
	C 4872, 4" HEAD.....	3.25
	C 4873, WATER-SAVER HEAD.....	3.25
	C 4890, VOLUME CONTROL.....	1.70
	ADDENDA SHOWERS	
27-2	C 4335, TOP NOZZLE TYPE.....	13.75
	C 4344, OVERRIM TYPE.....	11.40
	C 4345, TOP NOZZLE TYPE.....	12.40
	C 4348, FAUCET TYPE, LESS ROD.....	14.45
	ADDENDA SHOWERS - Con't	
27-2	C 4349, FAUCET TYPE.....	$26.95
	FOR TWO 8 OZ. 72" CURTAINS & HOOKS.....ADD	4.70
	EXPOSED SHOWERS	
28-1	C 4437, MIXING VALVE TYPE.....	31.65
	C 4465, *Telsa*, TWO-VALVE TYPE.....	16.45
	C 4521, *Telsa*, TWO-VALVE TYPE.....	23.20
	C 4571, MIXING VALVE TYPE.....	33.50
	FACTORY SHOWERS	
	C 4650, MIXING VALVE TYPE.....	14.25
	C 4670, *Telsa*, TWO-VALVE TYPE.....	6.90
	C 4671, *Telsa*, TWO-VALVE TYPE.....	6.90
	C 4680, DOUBLE SUPPLY VALVE TYPE.....	6.90
	SPECIAL SHOWERS	
28-2	C 4690, SELF-CLOSING.....	11.50
	C 4692, SELF-CLOSING.....	10.00
	C 4742, WITH EXP. FLUSH VALVE.....	16.70
	C 4750, WITH CONC. FLUSH VALVE:	
	FOR WALLS UP TO 1¼".....	14.45
	FOR WALLS 1 3/8 TO 2½"..	14.45
	FOR WALLS 2 5/8 TO 12"..	14.70

PAGE	GLASS SHOWER DOORS	Price	Shpg. Wgt.
29-1	C 4760, WITH VENTILATING GRILLE:		
	Senior MODEL (HEAVY BRASS CHROMIUM PLATED FRAME).....	$81.25	125
	Zephyr MODEL (ALUMINUM FRAME IN ALUMILITE FINISH).	56.25	60
	C 4761, WITHOUT VENTILATING GRILL:		
	Zephyr MODEL (ALUMINUM FRAME IN ALUMILITE FINISH).	40.65	60
	GLASS SHOWER COMPARTMENTS		
	INFORMATION AND PRICES ON REQUEST		

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PAGE	PLATE NUMBER AND DESCRIPTION	32x32"	36x36"	42x36"
29-2	**CABINET SHOWERS**			
	C 4706, *Weisway VP Master:*			
	RECESS TYPE.....	$175.00	$185.00	$195.00
	CORNER TYPE.....	185.00	195.00	205.00
	PIER TYPE.....	195.00	205.00	215.00
	CORNER ENTRANCE...	----	197.00	----
	SHIPPING WGT. APPROX...	340	360	410
	(F.O.B. ELKART, IND.)			
		30x30"	**32x32"**	**36x36"**
	C 4707, *Fiat Marine:*			
	AS DESCRIBED.....	$ 75.00	$ 80.00	$ 87.50
	CORNER ENTRANCE..	---	---	95.00
	SHIPPING WGT. APPROX...	400	475	550
	(F.O.B. CHICAGO OR N.Y.)			
	C 4712, *Weisway Standard:*			
	AS DESCRIBED.....	75.00	80.00	87.50
	CORNER ENTRANCE..	---	---	95.00
	SHIPPING WGT. APPROX...	195	235	265
	(F.O.B. ELKART, IND.)			
	C 4715, *Fiat Cadet*.....	60.00	65.00	72.50
	SHIPPING WGT. APPROX...	250	310	425
	(F.O.B. CHICAGO OR N.Y.)			

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE	SHPG. WGT.
30-1	C 4709, *Fiat Skipper* (F.O.B. CHICAGO OR NEW YORK)***	$47.85	250
	WITH GALVANIZED WALLS.....	37.85	250
	Fiat Plebe, WITH METAL RECP. (F.O.B. CHICAGO OR NEW YORK)		
	WITH BAKED ENAMEL WALLS....	37.85	140
	WITH GALVANIZED WALLS.....	33.85	140
	C 4710, *Weisway Cottager Deluxe* (F.O.B. ELKHART, IND.).....	47.85	150
	C 4713, *Weisway Cottager* (F.O.B. ELKHART, IND.)		
	BAKED ENAMEL WALLS.....	37.85	135
	GALVANIZED WALLS.....	33.85	135
	C 4708, *Elkay Junior* (F.O.B. CHICAGO)		
	WITH BAKED ENAMEL FINISH...	47.85	160
	WITH GALVANIZED FINISH.....	33.85	160

PAGE	PLATE NUMBER AND DESCRIPTION		PRICE	SHPG. WGT
30-2	**SHOWER RECEPTORS**			
	C 5090, *Rubberceptor*.....		$39.50	86
	ALUMINUM FILLER STRIPS, SET OF 4.....		3.00	
	C 5084, *Vitreceptor*..... (F.O.B. ELKHART, IND.)	32x32"	28.50	85
		36x36"	31.50	85
		36x42"	33.00	95
		42x42"	35.00	95
		30x30"	**36x36"**	**42x42"**
	C 5086, *Fiat* COMP. RECPS.. (F.O.B. CHICAGO OR N.Y.)			
	TERRAZZO, BLACK & WHITE	$30.00	$35.00	$40.00
	COLOR.....	40.00	45.00	50.00
	ARTEX.....	20.00	25.00	30.00
	STONETEX.....	15.00	20.00	22.00
	SHIPPING WGTS. APPROX..	160	235	310
			36x36"	**42x42"**
	C 5080, PORCELAIN RECEPTOR.....		$50.55	$70.75
	SHIPPING WGTS. APPROX.....		410	500

PAGE	MIXING VALVES		PRICE
31-1	C 4788, EXPOSED.....	½"	$16.40
		¾"	21.25
	C 4792, CONCEALED.....	½"	13.65
		¾"	17.80
	C 4802, *Rival*.....		8.20

PAGE	ANTI-SCALDING AND THERMOSTATIC MIXING VALVES		SIZE	PRICE
31-2	C 4810, *Doran* CONCEALED.....	A-3	½"	$33.00
		B-3	¾"	48.75
	C 4811, *Doran* EXPOSED.....	A-2	½"	30.50
		B-2	¾"	43.75
	C 4815, *Powers* CONCEALED.....	STYLE C	½"	47.00
			¾"	100.00
		STYLE B	½"	42.00
			¾"	90.00
	C 4816, *Powers* EXPOSED.....	STYLE A	½"	40.00
			¾"	80.00

*** *Skipper* DESCRIBED IN CATALOG WITH GALVANIZED RECEPTOR. DESCRIPTION SHOULD READ *Precast Stone.*

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PAGE	PLATE NUMBER AND DESCRIPTION	SIZE INCHES	CAPACITY	PRICE
	MIXING VALVES-Con't			
31-2	C 4820, *Leonard* CONCEALED:			
	R-5-C	1/2	5	$42.50
	R-10-C	1/2	10	52.05
	R-15-C	3/4	15	58.45
	R-25-C	3/4	25	79.70
	R-45-C	1	45	87.65
	C 4821 *Leonard* EXPOSED:			
	R-5-E	1/2	5	38.75
	R-10-E	1/2	10	47.80
	R-15-E	3/4	15	53.15
	R-25-E	3/4	25	72.75
	R-45-E	1	45	79.70
	C 4825, *Powers* CONCEALED.....M-C-6			40.00
	C 4826, *Powers* EXPOSED.....M-E-6			36.00
	C 4830, *Leonard* EXPOSED.....L-9-E			87.50
	C 4834, *Powers* EXPOSED.....TE			60.00
	C 4836, *Powers* CONCEALED.....TC			65.00
	C 4840, *Leonard* CONCEALED.....L-9-C			92.50
	SHOWER HEADS			
32-1	C 4871, *Economy*.....3/8 OR 1/2"			1.80
	C 4875, *Refreshor*, RIGID.....			1.55
	C 4875-B, *Refreshor*, BALL JOINT 3/8 OR 1/2"			2.20
	C 4876, *Refreshor*, RIGID.....			2.65
	C 4876, *Refreshor*, BALL JOINT.....			3.25
	C 4877, *Refreshor* SCREW-DRIVER TYPE....			2.65
	C 4879, VANDAL PROOF.....			10.15
	C 4881, *Refreshor* VANDAL PROOF.....			7.50
32-2	C 4860, RIGID HEAD.....4x1/2"			1.55
	5x1/2"			2.55
	6x1/2"			4.70
	6x3/4"			4.70
	8x3/4"			13.15
	C 4861, WITH BALL JOINT & REGULATOR:			
	4x3/8"			2.20
	4x1/2"			2.20
	5x1/2"			3.20
	6x3/4"			5.30
	8x3/4"			13.75
	C 4885, *Anystream*....WITH LEVER CONTROL			9.40
	LOOSE KEY CONTROL.			9.40
	VANDAL PROOF.....			20.65

PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE
	CURTAIN RODS AND CURTAINS		
33-1	C 4945-C, *Criterion* COMPLETE....	28x57"	$11.45
		28x63"	11.65
	C 4860-C, *Criterion* COMPLETE....	38"	5.95
		44"	6.20
		56"	7.20
		62"	7.45
		68"	7.70
		74"	8.50
	C 4950-C, COMPLETE.....	28x57"	10.55
		28x63"	10.95
	C 4962-C, COMPLETE.....	38"	4.70
		44"	4.90
		56"	5.55
		62"	5.90
		68"	6.15
		74"	6.95
	C 4970, 8 OZ. WHITE DUCK CURTAIN	42"	1.55
		48"	1.55
		60"	1.85
		66"	1.85
		72"	1.85
		78"	2.50
		99"	3.15

PAGE	DRINKING FOUNTAINS	White	Colored	Shpg. Wgt.
35-2	C 9040, *Corwith*...28"	$56.35	$75.45	125
	34"	65.60	90.60	140
	C 9062, *Corwith*.....	34.10	41.80	50
	C 9111, *Telephone*....	29.35	35.60	45
36-1	C 9155, *Thurstend:*			
	WITH CHINA RECEPTOR	19.40	---	40
	WITH GALV. RECEPTOR	13.15	---	40
	C 9161, *Thurstend*, CHINA	20.00	---	25
	C 9164, *Thurstend*, GALV.	9.35	---	15
	C 9175, *Erie*.....	67.50	---	80
36-2	C 9194, *Erie*.....	34.35	---	50
	FOR ICE-WATER FAUCET....ADD	3.65	---	
	C 9203, *Erie*.....	32.75	---	50
	C 9215, *Oasis*.....	38.10	50.60	60
	C 9227, *Oasis*.....	58.45	70.95	65
36-3	C 9254, *Arcuo*.....		DISC.	
	C 9261, *Crystal*.....	53.10	71.25	75
	C 9628, *Corridor*.....	71.40	98.10	90
	C 9298, *Ontario*.....	65.65	---	60

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PAGE	PLATE NUMBER AND DESCRIPTION	WHITE	COLORED	SHPG. WGT.
	DRINKING FOUNTAINS-Con't			
36-4	C9320, *Altruria*.....2 PART	$40.00	---	125
	3 PART	56.15	---	175
	4 PART	68.50	---	220
	C9356, *Thurstend*.....	55.00	---	40
	C9392, WATER COOLER.....	72.00	---	150
	C9405, ELECTRIC..... (F.O.B. WARREN, OHIO)	220.00	---	260
	CUSPIDORS		**PRICE**	**SHPG. WGT.**
37-1	C9800, *Gymnasium*.....		$32.20	60
	C9803, CUSPIDOR & FOUNTAIN COMB..		59.30	110
	C9806, Y.M.C.A.		44.05	95

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE
	FOUNTAIN TRIMMINGS	
37-2	C9460-A, *Whitney*.....	Disc.
	C9463-B, COMBINATION.....	*$17.65
	C9464-A, COMBINATION.....	Disc.
	C9467.....	* 8.20
	C9468-B.....	* 13.75
38-1	C9469.....	6.00
	C9470.....	6.15
	C9472-B.....	* 14.90
	C9475.....	6.65
	C9512, STRAINER.....	.70
	C9517.....	* 7.40
	* FOR 7-INCH METAL RECEPTOR.....ADD	1.70

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PAGE	PLATE NUMBER AND DESCRIPTION	PRICE White	PRICE Colored	SHPG. WGT.
	CLOSET COMBINATIONS			
41-1	C 10-381, *Neuvogue*.....	$97.50	$136.30	245
	C 10-384, *Siwelclo*.....	63.80	89.15	215
42-1	C 10-490, *Manor*, PLAIN RIM....	50.20	74.50	175
	C 10-491, *Manor*, ELONGATED RIM	55.00	80.75	185
	C 10-535, *Santonia*, ELONGATED RIM.	51.75	71.75	190
	C 10-541, *Santonia*, PLAIN RIM.	46.95	65.45	180
43-1	C 11-000, *Merit*, PLAIN RIM....	34.80	51.05	160
	C 11-001, *Merit*, ELONGATED RIM	39.30	57.25	165
	C 11-004, *Hanover*.....	28.25	42.50	135
43-2	C 11-125, *Neuton*.....	24.65	36.80	125
	C 11-145, *Neuton*.....	19.65	---	120
44-1	C 11-256, *Saxonet*.....	19.65	---	130
	C 11-275, *Hudson*.....	26.80	---	125
	VITREOUS CHINA BIDETS			
44-2	C 11-292,93, *Saniway*.....	Disc.		
	C 11-300, *Hygiene*.....	48.75	61.25	75
	C 11-302, *Hygiene*.....	37.50	50.00	65
	C 11-304, *Hygiene*.....	38.75	51.25	65
	WALL HANGING CLOSETS			
45-1	C 11-320, *Walton*.....	50.10	---	125
	C 11-325, *Walton*.....	51.25	---	130
46-1	C 11-380, *Rapidway*.....	47.95	---	115
	C 11-384, *Rapidway*.....	49.05	---	120
	C 11-387, *Rapidway*.....	45.00	---	115
	C 11-420, *Lowall*.....	47.95	---	110
47-1	C 11-423, *Lowall*.....	49.05	---	115
	C 11-428, *Lowall*.....	45.00	---	105
	FOR SUPPORTING CHAIRS WITH WALL OUTLET CLOSETS ADD:			
	BRASS OUTLET FOR LEAD PIPE	2.15		
	BRASS OUTLET FOR IRON PIPE	3.40		
	GALV. OUTLET FOR IRON PIPE	2.90		
	WALL OUTLET CLOSETS			
47-1	C 11-449, *Sanwalton*.....	43.40	---	105
47-1	C 11-470, *Angleton*.....	$40.50	---	85
	CLOSETS WITH FLUSHING VALVES			
48-1	C 11-495, *Speedway*.....	37.80	---	85
	C 11-497, *Speedway*.....	34.80	---	80
	FOR *Speedway Jr.* BOWL....ADD	.65		
	C 11-560, *Purton*.....	41.35	---	90
49-1	C 11-660, *Santon*.....	35.35	---	90
	C 11-661, *Santon*.....	32.55		85
	C 11-670, *Santon*.....	39.75	---	95
	C 11-671, *Santon*.....	36.95	---	90
	FOR *Santon Jr.* BOWL.....ADD	1.90		
	C 11-646, *Whirlton*.....	41.60	---	90
	C 11-648, *Whirlton*.....	38.50	---	85
49-2	C 11-730, *Esquator*.....	54.50	---	110
	C 11-732, *Esquator*.....	44.75	---	95
	C 11-865, *Maurton* OR *Maurclo*..	30.70	---	75
	C 11-866, *Maurton* OR *Maurclo*..	27.85	---	70
	C 11-925, *Saxonet*.....	22.25	---	65
50-1	C 11-956, *King Cotton*.....	34.00	---	75
	C 11-957, *King Cotton*.....	34.65	---	80
	C 11-958, *King Cotton*.....	38.05	---	80
	C 11-959, *King Cotton*.....	38.70	---	85
	C 11-985, *Giant*.....	37.25	---	80
	C 11-988, *Giant*.....	34.45	---	75
	SEAT OPERATED CLOSET			
50-2	C 11-995, *Lowall*.....	62.30	---	115
	C 12-005, *Santon*.....	47.60	---	95
	C 12-025, *Saxonet*.....	39.20	---	75
	C 12-040, *Freeze-Proof* (F.O.B. FACTORY)..	17.50	---	60
	PRESSURE TANK CLOSETS	Rough Brass	Chrom. Plated	
51-1	C 12-094, *Santon*.....	47.10	52.45	115
	C 12-096, *Santon*.....	48.70	54.00	120
	C 12-130, *Saxonet*.....	39.15	44.45	95
	C 12-132, *Saxonet*.....	40.70	46.00	100
	C 12-150, *Freeze Proof* (F.O.B. FACTORY)..	30.00	---	100

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PAGE	PLATE NUMBER AND DESCRIPTION	PRICE White	PRICE Colored	SHPG. WGT.
	CLOSET BOWLS			
	SANTON - Plain Rim			
51-2	TOP SPUD	$12.45	---	66
	TOP SPUD, INTEGRAL SEAT	15.25	---	66
	TOP SPUD, RAISED REAR VENT	25.40	---	87
	BACK SPUD	15.25	---	73
	SANTON JR. - Plain Rim			
	TOP SPUD	13.95	---	62
	BACK SPUD	Disc.		69
	SANTON - Elongated			
	TOP SPUD	15.25	$24.35	70
	TOP SPUD, INTEGRAL SEAT	18.05	---	70
	TOP SPUD, RAISED REAR VENT	28.20	---	94
	BACK SPUD	18.05	---	77
	BACK SPUD, INTEGRAL SEAT	20.85	---	77
	SANTON JR. - Elongated			
	TOP SPUD	16.95	---	64
	BACK SPUD	19.95	---	71
	WELLING DISCONTINUED			
	PURTON - Elongated			
	TOP SPUD	19.80	---	55
	TOP SPUD, INTEGRAL SEAT	22.80	---	55
	BACK SPUD	22.80	---	55
	EMPIRE - Elongated			
	TOP SPUD	21.25	---	58
	SANWALTON - Elongated			
52-1	TOP SPUD	26.35	---	81
	TOP SPUD, INTEGRAL SEAT	Disc.		81
	BACK SPUD	26.10	---	80
	BACK SPUD, INTEGRAL SEAT	29.10	---	80
	WALTON - Elongated			
	TOP OR BACK SPUD	24.20	---	77
	TOP OR BACK SPUD, RAISED REAR VENT.	28.90	---	100
	TOP OR BACK SPUD, INTEGRAL SEAT	27.20	---	77
	WALL HANGER AND SUPPORTS	5.95		
	ANGLETON - Wall Outlet			
	PLAIN RIM, BACK SPUD, INT. SEAT	26.45	---	65
	EXT. LIP, BACK SPUD, INT. SEAT	29.45	---	70
	ANGLETON - Floor Outlet			
	PLAIN RIM, TOP OR BACK SPUD, INT. SEAT	26.45	---	66
	EXT. LIP, BACK SPUD	Disc.		

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE White	PRICE Colored	SHPG. WGT.
	CLOSET BOWLS			
	ANGLETON - Floor Outlet (con't)			
	EXT. LIP, TOP SPUD	$26.45	---	71
	RAPIDWAY - Elongated			
52-1	TOP OR BACK SPUD	22.55	---	70
	BACK SPUD, RAISED REAR VENT	27.25	---	80
	BACK SPUD, INTEGRAL SEAT	25.55	---	70
	WALL HANGER AND SUPPORTS	5.35	---	
	LOWALL - Elongated			
	TOP OR BACK SPUD	22.25	---	67
	BACK SPUD, RAISED REAR VENT	27.25	---	76
	BACK SPUD, INTEGRAL SEAT	25.55	---	67
	WALL HANGER AND SUPPORTS	5.35		
	BABY			
52-2	PLAIN RIM, TOP SPUD	15.40	---	45
	SPEEDWAY - Plain Rim			
	TOP SPUD	14.70	---	72
	SPEEDWAY - Elongated			
	TOP OR BACK SPUD	17.70	---	70
	TOP OR BACK SPUD, INT. SEAT	20.70	---	75
	SPEEDWAY JR.			
	PLAIN RIM, TOP SPUD	15.45	---	65
	ELONGATED RIM, TOP SPUD	18.45	---	67
	MAURTON and MAURCLO			
	PLAIN RIM, BACK SPUD	8.10	13.00	57
	ELONGATED RIM, BACK SPUD	10.95	---	60
	SAXONET			
	PLAIN RIM, BACK SPUD	6.20	9.90	44
	PLAIN RIM, BACK SPUD, INT. SEAT	9.00	--	45
	PLAIN RIM, TOP SPUD, RAISED REAR VENT	Disc.		77
	SAXONET JR.			
	PLAIN RIM, BACK SPUD	6.90	10.95	51
	PLAIN RIM, TOP SPUD, RAISED REAR VENT	Disc.		70
	NERWALL			
	PLAIN RIM, BACK SPUD	6.20	---	48
	NEUTON and NEUCLO*			
	WITH SHELF, BACK SPUD	7.30	11.70	47
	WITHOUT SHELF, BACK SPUD	6.20	9.90	44
	*NEUCLO BOWL AVAILABLE IN WHITE ONLY			
	NEUDEC			
	WITHOUT SHELF, BACK SPUD	10.55	---	56

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PAGE	PLATE NUMBER AND DESCRIPTION	PRICE
	EXPOSED FLUSHING VALVES - Chromium Plated	
	"DELTA"	
53-2	C 12-883, Top Inlet	$11.20
	C 12-888, Back or Side Inlet	11.95
	C 12-901, Top Inlet	11.20
	C 12-981, Top Inlet (Urinal)	11.20
	"ALPHA"	
	C 13-000, Top Inlet	11.75
	C 13-008, Back or Side Inlet	12.50
	C 13-022, Top Inlet	11.75
	C 13-058, Top Inlet (Urinal)	11.75
	"BETA"	
	C 13-103, Top Inlet	10.20
	C 13-109, Back or Side Inlet	10.95
	C 13-119, Top Inlet	10.20
	C 13-181, Top Inlet (Urinal)	10.20
	"DREDNAUT"	
	C 12-902, Top Inlet	12.20
	CONCEALED FLUSHING VALVES - Chromium Plated	
	"DELTA"	
	C 12-941, Back Inlet	12.50
	C 12-987, Back Inlet	11.65
	C 12-941-R, Back Inlet	12.45
	"ALPHA"	
	C 13-039, Back Inlet	12.90
	C 13-072, Back Inlet	12.15
	C 13-052, Foot Operated, Back Inlet	20.05
	C 13-086, Foot Operated, Back Inlet	19.70
	"BETA"	
	C 13-163, Back Inlet	11.30
	C 13-186, Back Inlet	10.55
54-2	**"DELTA" SEAT OPERATED VALVES - Chrom. Plated**	
	C 12-922, For Top Inlet, with Seat	30.50
	C 12-930, For Back Inlet, with Seat	31.25
	C 12-930, For Top Inlet, with Seat	30.50
	C 12-964, Concealed, with Seat	32.80
	For Bowl away from wall ..... Add	.45
	C 13-273 "VIGILANT" Vacuum Breaker	1.75

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE
	NON-SIPHON STOPS - Chromium Plated	
54-2	C 13-330-A Corner Pattern	$3.40
	C 13-327-A Straightway Pattern	3.40
	C 13-310 Angle Compression Stop	3.20
	CLOSET SEATS WOOD	
	C 14-700, 1"	2.45
	1¼"	2.75
	C 14-710, Sprayed White	2.75
	C 14-722, Open Front	3.70

1¼" SHEET COVERED	White	Plain Color	Sea Pearl
C 15-002, Plain Rim	$5.40	$6.25	$8.25
C 15-002-E, Elongated	7.10	7.90	9.95
C 15-004, Plain Rim	6.25	7.10	9.10
C 15-004-E, Elongated	7.90	8.75	10.75
C 15-006, Plain Rim	6.25	7.10	9.10
C 15-006-E, Elongated	7.90	8.75	10.75
C 15-008, Plain Rim	7.10	7.90	9.95
C 15-008-E, Elongated	8.75	9.60	11.55
1½" SHEET COVERED			
C 14-970, Plain Rim	7.90	8.55	11.20
C 14-970-E, Elongated	9.75	10.35	13.00
C 14-972, Plain Rim	8.65	9.30	11.90
C 14-972-E, Elongated	10.55	11.10	13.75
C 14-986, Plain Rim	7.35	7.90	10.60
C 14-986-E, Elongated	9.15	9.70	12.35
C 14-987, Plain Rim	8.15	8.75	11.45
C 14-987-E, Elongated	9.95	10.50	13.10

HARD RUBBER	PRICE
C 14-905, Plain Rim	$ 7.10
C 14-911, Elongated	7.10
C 14-915, Open Front & Back	7.90
C 14-910, Plain Rim with Cover	13.35

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PAGE	PLATE NUMBER AND DESCRIPTION	Size Inches	PRICES Single	Battery of 2	Battery of 3	Battery of 4	Battery of 5	Battery of 6
59-1	C 15-390, *Sanitor*, COMPLETE AS DESCRIBED....	18	.....	$151.35	$221.75	$297.80	$370.70	$445.50
	C 15-392, *Sanitor*, COMPLETE AS DESCRIBED....	18	$77.35	138.05	195.10	257.90	317.45	378.95
	C 15-394, *Sanitor*, COMPLETE AS DESCRIBED....	18	.....	146.45	226.30	306.20	386.05	465.95
	C 15-396, *Sanitor*, COMPLETE AS DESCRIBED....	18	66.55	.....	.....	.....	.....	.....
60-1	C 15-400, CHINA, COMPLETE AS DESCRIBED.....	15 OR 18	.....	147.55	216.60	291.40	362.95	436.45
		21	.....	170.30	250.50	336.50	420.00	504.45
	PORCELAIN, COMPLETE AS DESCRIBED..	15 OR 18	.....	133.70	195.20	262.40	326.40	392.30
		21	.....	148.95	217.80	292.50	364.70	437.80
		24	.....	164.25	240.20	323.00	403.05	483.45
	C 15-420, CHINA , COMPLETE AS DESCRIBED.....	15 OR 18	74.90	133.05	187.60	247.90	304.95	363.95
		21	86.00	155.80	221.50	293.00	362.00	431.95
	PORCELAIN, COMPLETE AS DESCRIBED..	15 OR 18	68.55	120.45	168.70	222.60	273.40	326.05
		21	75.95	135.70	191.30	252.75	311.70	371.55
		24	83.10	151.00	213.70	283.25	350.05	417.20
	C 15-405, CHINA, COMPLETE AS DESCRIBED.....	15 OR 18	.....	142.60	221.20	299.75	378.30	456.90
		21	.....	164.90	254.55	344.25	433.95	523.60
	PORCELAIN, COMPLETE AS DESCRIBED..	15 OR 18	.....	128.75	199.75	270.75	341.75	412.75
		21	.....	143.50	221.90	300.25	378.65	457.00
		24	.....	157.90	243.45	329.00	414.55	500.15
	C 15-425, CHINA, COMPLETE AS DESCRIBED.....	15 OR 18	64.05	.....	.....	.....	.....	.....
		21	75.20	.....	.....	.....	.....	.....
	PORCELAIN, COMPLETE AS DESCRIBED..	15 OR 18	57.75	.....	.....	.....	.....	.....
		21	65.15	.....	.....	.....	.....	.....
		24	72.30	.....	.....	.....	.....	.....
61-1	C 15-410, CHINA, COMPLETE AS DESCRIBED.....	18	80.75	144.80	205.25	271.35	334.30	399.20
	PORCELAIN, COMPLETE AS DESCRIBED..	18	74.00	131.30	185.00	244.35	300.55	358.70
		24	88.60	162.00	230.20	305.25	377.55	450.20
	C 15-415, CHINA, COMPLETE AS DESCRIBED.....	18	69.95	.....	.....	.....	.....	.....
	PORCELAIN, COMPLETE AS DESCRIBED..	18	63.20	.....	.....	.....	.....	.....
		24	77.80	.....	.....	.....	.....	.....

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE	SHPG. WGT.
	CHINA WALL URINALS		
62-1	C 15-601, *Correcto*, AS DESCRIBED....	$65.75	195
	C 15-609, *Correcto*, AS DESCRIBED....	54.95	150
	C 15-613, *Rio*, AS DESCRIBED.....	78.95	195
	C 15-617, *Rio*, AS DESCRIBED.....	64.05	150

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE	SHPG. WGT.
	CHINA WALL URINALS		
62-1	C 15-621, *Deflecto*, AS DESCRIBED.....	$91.15	250
	C 15-625, *Deflecto*, AS DESCRIBED.....	75.85	150
63-1	C 15-629, *Expedio*, AS DESCRIBED.....	51.30	110
	C 15-643, *Vorto*, AS DESCRIBED.....	48.35	130
	C 15-665, *Manhattan*, AS DESCRIBED.....	35.55	70

SHIPPING WEIGHT, APPROX.

BATTERY OF:	C 15-390 2	3	4	5	6
	535	840	1145	1405	1700

BATTERY OF:	C 15-392 1	2	3	4	5	6
	225	415	600	785	925	1100

BATTERY OF:	C 15-394 2	3	4	5	6
	530	855	1210	1505	1830

C 15-396 URINAL	1
ONLY	205

BATTERY OF:	C 15-400 2	3	4	5	6
15".....	575	895	1215	1450	1755
18".....	605	940	1275	1565	1890
21".....	630	975	1325	1590	1920
24".....	725	1115	1520	1845	2230

BATTERY OF:	C 15-420 1	2	3	4	5	6
15".....	250	465	675	885	1005	1205
18".....	265	495	720	945	1125	1340
21".....	275	520	755	995	1150	1370
24".....	325	615	895	1190	1405	1680

BATTERY OF:	C 15-405 2	3	4	5	6
15".....	570	910	1250	1590	1930
18".....	600	955	1310	1665	2020
21".....	620	985	1350	1715	2080
24".....	715	1130	1545	1960	2375

C 15-425 URINAL	EACH	ONLY
15".....	230	200
18".....	245	215
21".....	255	225
24".....	300	260

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PAGE	PLATE NUMBER AND DESCRIPTION	SIZE OF SINK INCHES	White Acid Resisting	Colored Acid Resisting	SHPG. WGT.
	CABINET SINKS COMPLETE WITH WHITE OR IVORY CABINETS				
68-1	C 19-070-S, *Kitchen Queen*..	72x25	$148.15	$160.10	640
	C 19-071-S, *Kitchen Queen*..	72x25	150.65	163.05	655
	C 19-073-S, *Kitchen Queen*..	72x25	153.15	166.05	665
	FOR COLORED CABINET....ADD	.....		6.25	
	C 19-083-S, *Kitchen Pride*.	38x25	81.10	87.40	370
	FOR FLUSH FRONT CABINET, ...DEDUCT	.....	11.25	11.25	50
68-2	C 19-150-S, *Sunnyday*.....	54x25	91.25	98.85	440
		60x25	100.20	108.10	470
	C 19-151-S, *Sunnyday*.....	54x25	93.75	101.80	450
		60x25	102.70	111.05	480
	C 19-153-S, *Sunnyday*.....	54x25	96.25	104.80	460
		60x25	105.20	114.05	490
	FOR COLORED CABINET...ADD	.....		4.35	
69-1	C 19-158-S, *Homemaker*...	42x25	71.80	77.30	345
		52x25	81.95	89.70	400
	C 19-161-S, *Homemaker*...	42x25	74.30	80.25	355
		52x25	84.45	92.60	410
	IF LESS CABINET.... DEDUCT	42	33.15	33.15	
		52	36.25	36.25	
	FOR COLORED CABINET...ADD			3.15	
	C 19-162, *Sunnyside*.....	60x25	85.35	92.30	460
	APRON SINKS COMPLETE AS DESCRIBED				
69-2	C 19-177, *Corland*.....	60x24	54.40	62.80	360
		74x24	81.85	89.90	470
	FOR LEGS, ADD.....PAIR	.....	5.80	7.90	
	C 19-179, *Corland*.....	42x22	40.55	46.35	270
		52x24	49.30	56.70	340
			White Regular Enamel	**White Acid Resisting**	
	C 19-184, DOUBLE DRAINBOARD	60x20	40.55	42.90	255
		60x22	42.35	44.85	265
	C 19-194, SINGLE DRAINBOARD	42x20	29.25	30.75	180
		52x20	41.20	43.55	220
		52x22	44.25	46.80	255
70-1	C 19-223, NO DRAINBOARD....	24x20	28.70	31.10	120
		30x20	32.45	35.30	140
	C 19-226, CORNER.....	42x20	33.70	36.75	190
		52x20	41.50	45.55	235

PAGE	PLATE NUMBER AND DESCRIPTION	SIZE OF SINK INCHES	White Regular Enamel	White Acid Resisting	SHPG. WGT.
	ROLL RIM SINKS COMPLETE AS DESCRIBED				
70-1	C 19-228, DOUBLE DRAINBOARD.	60x22	38.65	40.85	220
	CABINET, WHITE OR IVORY....	60x22	27.90	---	150
70-2	C 19-230, SINGLE DRAINBOARD.	42x20	26.10	27.35	150
		52x20	32.35	33.40	180
	CABINET, TYPE "A".....	42	21.65	---	105
		52	25.00	---	120
	TYPE "B".....	42	20.00	---	100
		52	23.35	---	110
	TYPE "C".....	42	16.20	---	85
	C 19-236, CORNER.....	42x20	31.10	33.85	185
		52x20	37.75	41.30	220
	C 19-330, NO DRAINBOARD....	24x16	18.40	19.55	70
		24x18	18.00	18.60	80
		30x18	22.10	23.10	105
		24x20	21.35	22.85	80
		30x20	22.75	23.75	110
		36x20	26.75	28.05	135
	FLAT RIM SINKS COMPLETE AS DESCRIBED				
71-1	C 19-340, WITH BACK.....	30x18	23.00	24.00	100
		30x20	23.70	24.75	110
	C 19-347, CENTER OUTLET....	30x20	---	14.40	75
	C 19-348, CENTER OUTLET	12x12	6.00	6.35	25
		24x20	9.15	9.65	55
		30x20	10.25	10.90	75
	C 19-350, END OUTLET.....	18x12	6.80	7.15	25
		20x14	7.15	7.50	40
		20x16	7.50	7.90	45
		24x16	7.15	7.50	45
		24x18	8.45	8.95	50
		30x18	7.60	8.00	60
		24x20	8.70	9.20	60
		30x20	8.75	9.25	70
		36x20	12.65	13.40	85
	C 19-356, TWO COMPARTMENT...	32x20	---	20.60	100
		42x22	---	26.85	135
	CABINET SINKS COMPLETE AS DESCRIBED			**PRICE**	
71-2	C 19-480.....	72x25		$160.00	600
		84x25		176.25	685
	C 19-494.....	60x25		199.35	490

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PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE		SHPG. WGT.
	PANTRY SINKS				
72-1	C 19-565, *China*.....	20x14	$25.75		120
		30x20	39.20		240
	GREASE TRAPS		Painted	Enamel Inside	
72-2	C 19-850.....	12x 8	$13.55	$25.80	
		19x11½	15.75	31.50	
	C 19-858, *Josam-Marsh*...	(Disc.)			
	C 19-861, *Josam-Cascade*. (F.O.B. MICHIGAN CITY, IND.)	J-00	17.50	---	40
		J-0	26.25	---	52
		J-1	48.15	---	85
		J-2	68.25	---	95
		J-3	101.50	---	260
		J-4	163.65	---	360
		J-5	228.15	---	465
	SCULLERY SINKS COMPLETE-LESS FAUCETS AND TRAPS		Price		
	C 19-880- (F.O.B.CHICAGO)..	30x24	$52.50		160
		36x24	54.50		175
		42x24	56.50		180
		48x24	58.50		195
		54x24	60.50		205
		60x24	62.50		220
	C 19-890, DRAINBOARD...	24x24	6.00		30
	SINK AND TUB COMBINATIONS COMPLETE AS DESCRIBED		White Regular	White A.R.	
73-1	C 21-000, (LESS DRAINBOARD).	42x25	$59.00	$62.30	375
	C 21-010, (LESS DRAINBOARD).	42x25	38.25	42.05	285
	C 21-012, (LESS DRAINBOARD).	42x25	40.80	44.95	300
	C 21-110, (LESS DRAINBOARD)	36x22	47.10	51.20	260
		42x22	47.10	51.20	285
		50x22	53.95	58.95	330
	EVERBRITE LAUNDRY TUBS COMPLETE AS DESCRIBED		Price		
73-2	C 21-129.....	40x27	$46.70		330
	C 21-143.....	40x22	41.40		350
		46x24	50.15		415
74-1	C 21-147.....	40x22	38.50		340
		46x24	47.25		405

PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE		SHPG. WGT.
74-1	**EVERBRITE LAUNDRY TUBS COMPLETE AS DESCRIBED — Continued**				
74-1	C 21-176.....	2 PART	$55.00		485
		3 PART	86.25		725
	C 21-179.....	1 PART	24.55		215
		3 PART	70.30		625
	ENAMELED LAUNDRY TUBS COMPLETE AS DESCRIBED		Regular Enamel	Acid Resisting	
74-2	C 21-191.....	52x26	$71.95	$79.00	400
	C 21-221.....EACH	27x26	36.65	40.30	200
	C 21-242.....EACH	24x20	16.30	17.60	105
		24x22	17.90	19.40	125
		25x25	26.65	29.30	135
	C 21-253.....	24x20	29.65	32.15	245
		24x22	33.50	36.30	285
		25x25	50.30	55.30	325
	COMPOSITION LAUNDRY TUBS		Price		
75-1	C 21-280, *Alberene*.....		App'l		
	C 21-293, *Shelfon*-- 2 COMPARTMENT..		$15.30*		400
	3 COMPARTMENT..		27.00*		575
	C 21-294, *Cement*-- 2 COMPARTMENT..		12.50*		350
	3 COMPARTMENT..		21.50*		525
	*F.O.B. Chicago				
	SERVICE SINKS				
75-2	C 21-321-D, CHINA.....	20x18	70.95		210
		22x20	78.45		235
	C 21-327, CHINA.....	20x18	79.05		210
		22x20	86.55		235
	C 21-338, CHINA.....	20x16	66.25		165
		22x18	71.00		185
	C 21-353, PORCELAIN....	24x20	110.85		250
			REG.	A.R.	
76-1	C 21-360-L, ENAMELED...	20x16	$33.95	$36.30	140
		22x18	35.40	37.95	160
		24x20	38.15	41.00	175
	C 21-382, ENAMELED.....	22x18	55.80	57.80	155
		24x20	58.95	60.95	170
	C 21-390, ENAMELED.....	22x18	42.80	45.00	125
		24x20	45.20	47.65	165

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PAGE	PLATE NUMBER AND DESCRIPTION		PRICE White	PRICE Color
	CRANE CHINA ACCESSORIES			
77-1	C 24-914, Crystal Glass Shelf		$4.50	$6.15
	C 24-925, Square Towel Bar	18"	2.90	4.30
		24"	3.50	5.05
		30"	3.80	5.55
		36"	4.20	6.15
	C 24-932, Tumbler Holder		1.15	2.00
	C 24-935, Combination Holder		1.40	2.75
	C 24-938, Tumbler		.45	.70
	C 24-940, Soap Dish		1.65	3.25
	C 24-956, Paper Holder		1.70	3.55
	C 24-960, Robe Hook		.70	1.15
	C 24-964, Recess Tumbler Holder		1.50	2.70
	C 24-970, Recess Soap Holder		1.50	2.70
	C 24-973, Combination Holder, less lip		2.15	--
	C 24-975, Combination Holder, with lip		2.25	3.70
	C 24-984, Recess Paper Holder		1.65	2.70
	C 25-285, Ornamental Soap Holder		1.75	2.90
	TYTESET ACCESSORIES MANHATTAN, SHIELD or SQUARE TYPES			Chrom. Plated
78-1	C 24-990, Crystal Shelf	18"		$5.10
		24"		5.30
		30"		5.70
	C 24-991, Single Hook			1.05
	C 24-992, Double Hook			1.40
	C 24-993, Towel Bar:			
	Square Metal	18"		3.80
		24"		4.20
		30"		4.60
	Square Crystal	18"		4.70
		24"		5.20
		30"		5.60
	Round Crystal,	18"		3.80
		24"		4.10
		30"		4.40
	C 24-994, Grab Bar			3.20
	C 24-995, Tumbler Holder			3.00
	C 24-996, Combination Holder			2.40
	C 24-997, Toothbrush Holder			2.00
	C 24-998, Combination Grab Bar			4.50
	C 24-999, Paper Holder	Wood Roller		2.90
		Metal Roller		3.70
	C 25-000, Soap Holder	6¼x5 "		3.55
		7¼x5¾"		4.15
	C 25-001, Soap Holder			2.20

PAGE	PLATE NUMBER AND DESCRIPTION		PRICE
	RECESS ACCESSORIES		Chrom. Plated
78-1	C 25-005, Tumbler Holder		$4.20
	C 25-006, Paper Holder	Wood Roller	4.50
		Metal Roller	5.30
	C 25-007, Soap Holder	Crystal Dish	5.85
		Black Dish	6.05
	C 25-008, Combination Holder	Crystal Dish	7.60
		Black Dish	7.80
	PARFAIT ACCESSORIES PRICES ON APPLICATION		
	SIMPLICITY DESIGN ACCESSORIES		
79-1	C 25-108, Soap Holder		2.30
	C 25-111, Combination Holder		2.30
			Crystal / Black
	C 25-112, Shelf	18"	$4.30 / $5.45
		24"	4.50 / 6.15
		30"	4.80 / 6.80
			Metal / Crystal / Black
	C 25-113, Towel Bar, Square	18"	$3.90 / $4.30 / --
		24"	4.15 / 4.65 / --
		30"	4.50 / 5.00 / --
	Round	18"	4.65 / 4.15 / $4.50
		24"	4.90 / 4.30 / 4.80
		30"	5.30 / 4.65 / 5.20
	C 25-116, Towel Bar	18"	3.15 / -- / --
		24"	3.40 / -- / --
		30"	3.70 / -- / --
			Chrom. Plated
	C 25-117, Grab Bar	18"	$4.05
		24"	4.65
		30"	5.20
		36"	5.75
	C 25-118, Light Fixture, less Bulb		8.75
	C 25-119, Soap Holder		2.90
	C 25-120, Double Hook		1.45
	C 25-121, Single Hook		1.15
	C 25-122, Paper Holder	Wood Roller	2.75
		Metal Roller	3.75
	C 25-123, Soap Holder	Crystal Dish	2.90
		Metal Dish	4.15
	C 25-125, Toothbrush Holder		1.45
	RECESS ACCESSORIES		
	C 25-140, Combination Holder		3.70
	C 25-141, Soap Holder		2.65

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PAGE	PLATE NUMBER AND DESCRIPTION				PRICE
	RECESS ACCESSORIES (Con't)				Chrom. Plated
79-1	C 25-142, PAPER HOLDER.....WOOD ROLLER				$2.65
	METAL ROLLER				3.25
	C 25-143, TUMBLER HOLDER.....				2.30
			Metal	Crystal	Black
	C 25-160, GLASS SHELF....18"		--	$2.65	$3.80
	24"		--	2.80	4.50
	30"		--	3.15	5.15
	C 25-161, TOWEL BAR: SQUARE 18"		$2.80	3.25	3.55
	24"		3.05	3.55	3.95
	30"		3.45	3.95	4.45
	ROUND 18"		2.45	2.45	2.75
	24"		2.65	2.55	2.95
	30"		2.95	2.65	3.15
					Chrom. Plated
	C 25-162, PAPER HOLDER.....				$1.75
	C 25-163, SOAP HOLDER.....				1.50
	C 25-164, COMBINATION HOLDER.....				1.50
	C 25-165, DOUBLE HOOK.....				.95
	C 25-166, SOAP HOLDER AND GRAB BAR.....				3.40
79-2	**ARISTOCROME ACCESSORIES THE 200 LINE**				
	SIZE, INCHES	18	24	30	36
	C 25-206, GLASS SHELF CRYSTAL	$3.75	$3.90	$4.05	--
	OPAL	4.25	4.40	4.55	--
	BLACK	4.25	4.40	4.55	--
	C 25-207, TOWEL BAR: SQUARE METAL	3.75	4.00	4.25	$4.65
	ROUND METAL	3.50	3.60	3.70	3.85
	ROUND CRYSTAL	3.50	3.60	3.70	3.85
					Chrom. Plated
	C 25-208, COMBINATION HOLDER....WITH SLOTS				$2.35
	LESS SLOTS				2.35
	C 25-209, SINGLE HOOK.....				1.25
	C 25-210, PAPER HOLDER.....WOOD ROLLER				3.10
	METAL ROLLER				3.45
	C 25-211, DOUBLE HOOK.....				1.50
	C 25-212, SOAP HOLDER.....WITH DRAIN HOLES				2.45
	LESS DRAIN HOLES				2.35
	RECESS ACCESSORIES				
	C 25-215, SOAP HOLDER.....				2.75
	C 25-216, COMBINATION HOLDER.....				3.90
	C 25-217, PAPER HOLDER.....WOOD ROLLER				2.65
	METAL ROLLER				3.00
	C 25-218, TUMBLER HOLDER.....				2.50

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE			
	THE 300 LINE				
	SIZE, INCHES	18	24	30	36
79-2	C 25-225, GLASS SHELF: CRYSTAL	$3.20	$3.35	$3.50	--
	OPAL	3.70	3.85	4.00	--
	BLACK	3.70	3.85	4.00	--
	C 25-228, TOWEL BAR: SQUARE METAL	3.25	3.50	3.75	$4.15
	SQUARE CRYSTAL	3.75	4.00	4.25	4.75
	SQUARE OPAL	4.75	5.00	5.25	5.75
	SQUARE BLACK	4.75	5.00	5.25	5.75
	ROUND METAL	2.90	3.00	3.10	3.25
	ROUND CRYSTAL	2.90	3.00	3.10	3.25
					Chrom. Plated
	C 25-231, COMBINATION HOLDER...RING BOTTOM				$1.75
	SOLID BOTTOM				2.00
	C 25-232, PAPER HOLDER.....WOOD ROLLER				2.50
	METAL ROLLER				2.85
	C 25-233, SINGLE HOOK.....				1.00
	C 25-234, DOUBLE HOOK.....				1.25
	C 25-236, SOAP HOLDER.....WITH GLASS DISH				2.00
	LESS GLASS DISH, WITH DRAIN				1.80
	LESS GLASS DISH, NO DRAIN				1.75
	RECESS ACCESSORIES				
	C 25-243, SOAP HOLDER.....				2.70
	C 25-244, COMBINATION HOLDER.....				3.80
	C 25-245, PAPER HOLDER.....WOOD ROLLER				2.60
	METAL ROLLER				2.95
	C 25-247, TUMBLER HOLDER ONLY.....				2.45
	C 25-249, LAVATORY UNIT.....				10.80
	E-Z KROME ACCESSORIES Screw Attached Type				
		18	24	30	36
	C 25-550, GLASS SHELF: 1/4" CRYSTAL	$3.35	$3.55	$3.75	$4.15
	5/16" BLACK..	3.75	3.95	4.15	4.55
	7/16" CRYSTAL	5.30	5.90	6.50	8.45
	7/16" BLACK..	5.70	6.30	6.90	8.90
	C 25-552, TOWEL BAR: METAL	2.75	2.95	3.15	3.55
	SQUARE CRYSTAL	3.35	3.55	3.75	4.35
	BLACK	3.55	3.75	3.95	4.55
	METAL	2.55	2.70	2.85	3.25
	ROUND CRYSTAL	2.40	2.55	2.70	3.05
	BLACK	2.55	2.70	2.85	3.25

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PAGE	PLATE NUMBER AND DESCRIPTION	PRICE
	E-Z KROME ACCESSORIES (con't)	Chrom. Plated
79-3	C 25-551, Single Hook	$ .95
	C 25-553, Soap Holder	1.75
	C 25-554, Tumbler Holder	1.55
	C 25-555, Toothbrush Holder	1.25
	C 25-556, Combination Holder	1.75
	C 25-557, Paper Holder ..... Wood Roller	2.50
	Metal Roller	3.15
	C 25-558, Hand Rail	2.40

PLUG ATTACHED TYPE

Size Inches	18	24	30	36
C 25-550 Glass Shelf:				
1/4" Crystal	$3.55	$3.75	$3.95	$4.35
5/16" Black	3.95	4.15	4.35	4.75
7/16" Crystal	5.50	6.10	6.70	8.65
7/16" Black	5.90	6.50	7.10	9.05
C 25-552, Towel Bar:				
Metal	2.95	3.15	3.35	3.75
Square Crystal	3.55	3.75	3.95	4.55
Black	3.75	3.95	4.15	4.75
Metal	2.75	2.90	3.05	3.45
Round Crystal	2.55	2.75	2.90	3.30
Black	2.75	2.90	3.05	3.45

		Chrom. Plated
	C 25-551, Single Hook	$1.05
	C 25-553, Soap Holder	1.85
	C 25-554, Tumbler Holder	1.70
	C 25-555, Toothbrush Holder	1.40
	C 25-556, Combination Holder	1.85
	C 25-557, Paper Holder ..... Wood Roller	2.70
	Metal Roller	3.35
	C 25-558, Hand Rail	2.55
	RECESS ACCESSORIES	
	C 25-565, Combination Holder	3.95
	C 25-566, Paper Holder ..... Wood Roller	2.75
	Metal Roller	3.45
	C 25-567, Soap or Tumbler Holder	2.75
	For Wall Frame ..... Add	.60

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE
	DUXBURY ACCESSORIES	Chrom. Plated
79-4	C 26-065, Robe Hook	$ .65
	C 26-066, Tumbler Holder	1.15
	C 26-067, Soap Dish, Ribbed Bottom	1.40
	C 26-068, Soap Dish, with Drain Slots	1.40
	C 26-069, Paper Holder	1.85
	C 26-070, Combination Holder	1.15

Size Inches	18	24	30
C 26-071, Crystal Glass Shelf	$1.85	$2.00	$2.40
C 26-072, Square Towel Bar	2.40	2.65	3.00
C 26-073, Round Towel Bar	1.85	2.10	2.45

RECESS ACCESSORIES

C 26-090, Combination Holder	2.45
C 26-091, Paper Holder	2.65
C 26-092, Soap Dish	2.65
C 26-093, Soap Dish and Hand Rail	4.40
C 26-094, Soap Dish and Hand Rail	3.50
For #1200 Cementing Attachment ... Add	.20

PAGE	RECESS CABINETS	Size Inches	With Lights NO Bulbs	Less Side Lights	Shpg. Wgt.
80-1	C 26-886, *Bostonian*	16x24	$29.25	$13.90	38
		18x28	35.65	20.25	66
	C 26-887, *Lumiline*	18x24	42.00	---	37
		22x28	65.00	---	51
	C 26-888, *Park Manor*	18x24	43.00	27.00	53
		20x26	61.00	45.00	62
	C 26-892, *Luminary:*				
	Unframed	18x24	28.15	---	40
		18x26	29.15	---	42
	Framed	18x24	33.00	---	42
		18x26	34.05	---	44
	C 26-896, *Berkshire*	16x24	27.75	12.40	38
		18x26	30.45	15.05	62
		18x28	32.25	16.90	66
	C 26-908, *Champlain*	16x22	29.05	13.70	36
		18x24	32.65	17.25	62
		18x31	---	21.00	46
		21x27	---	22.50	63

PAGE		Size Inches	Price	Shpg. Wgt.
80-2	C 26-885 *Vanity Queen*	17x24	$80.00	58
		19x26	90.00	66
	C 26-895, *Coronet* - Framed (Formerly *Venetian*)	16x24	16.05	33
		18x26	18.50	40
		18x30	22.15	46
		20x32	25.50	52

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PAGE	PLATE NUMBER AND DESCRIPTION	SIZE INCHES	PRICE	SHPG. WGT.
	RECESS CABINETS - (Con't)			
80-2	C 26-895, *Dignitary*-UNFRAMED.. (FORMERLY *Venetian*)	16x24	$12.20	32
		18x26	14.40	37
		18x30	16.65	43
		20x32	18.30	51
	C 26-902, *Simplicity*-FRAMED...	16x22	14.05	32
		18x24	16.45	39
		18x27½	19.65	45
		20x30	22.45	50
	UNFRAMED..	16x22	11.55	31
		18x24	13.45	36
		18x27½	15.90	42
		20x30	18.55	50
	C 26-909, *Clarendon*.....	18x24	15.75	35
		20x26	18.40	45
	C 26-910, *Beacon*..... (FORMERLY *Crystal Champion*)	16x22	8.50	25
	C 26-911, *Cottage*.....	15½x22	8.25	21
	Suffolk.....	15½x23	8.25	19
	Nassau.....	15½x23	7.50	19

PAGE	POWDER ROOM MIRRORS	Size Inches	Price	SHPG. WGT.
81-1	C 27-270.....	12x18	$8.00	
		16x20	10.30	
		18x24	12.90	
		20x26	15.50	
		24x48	30.00	
		20x60	37.50	
	FOR THEFT-PROOF DEVICE.....ADD		.50	
	C 27-271.....	12x16	4.70	
		16x22	6.25	
	C 27-273.....	24	14.00	
	C 27-300.....	18x24	24.00	

HAND RAILS AND GRAB BARS	Price
C 26-285, GRAB BAR.....	$4.40
C 26-292, HAND RAIL.....	9.45
C 26-296, HAND RAIL.....	7.75*
C 26-297, HAND RAIL.....	5.00*
* DRILLING TUB, ADD FOR EACH FLANGE.....	2.50

PAGE	PLATE NUMBER AND DESCRIPTION		PRICE
	BATH STOOLS		
82-1	C 27-124.....WHITE		$9.50
	COLORED		11.50
	C 27-125.....WHITE		17.00
	COLORED		19.00
	C 27-460, TANK SHELF:		
	FOR 6 GAL. TANK		4.05
	FOR 8 GAL. TANK		5.00

	SCALES - WHITE or COLORED	Single Lots Each	4 or More Each
82-1	C 27-133.....	$2.75	$2.55
	C 27-135.....	3.75	3.40
	C 27-139.....	5.55	4.90
	C 27-140.....	7.80	6.90

LIQUID SOAP FIXTURES		Price
C 27-406, CONTAINER.....		$3.35
C 27-407, CONTAINER.....		4.80
C 27-409, CONTAINER, FOR ENAM. LAVS...		6.35
FOR CHINA LAVS...		8.10

		Gray Enamel	White Enamel
C 27-420, TANK.....2 GAL.		$6.60	$7.20
3 GAL.		8.10	8.75
5 GAL.		9.45	10.10
10 GAL.		14.95	16.00

		Price
C 27-425, TANK,.....1¼ GAL.		$13.10
2 GAL.		17.05
5 GAL.		21.45
C 27-430, SOAP VALVE.....		3.75
C 27-433, SOAP VALVE.....		2.35

THE ARCHITECT

and

PLUMBING SPECIFICATIONS

"ARCHITECTURE," LeCorbusier has written, "is a thing fated to happen in a creative moment when the mind occupied with material needs for solidity and comfort is suddenly lifted up with a higher ambition and manifests that lyrical power which quickens our senses and gives us pleasure."

Something like that is happening today. For certainly progress in architecture and in the allied arts has become vitalized. The evidence lies on every hand . . . but nowhere more abundantly than in plumbing where the potter and the colorist have been impressed into services as practical as those performed by plasterers and carpenters, where the mechanisms of faucets, wastes, and water closets have been made objects of expert engineering development — and where the floor layouts of kitchens and bathrooms have become subjects for scientific research.

Still, if this re-birth of interest in architecture has multiplied the architect's opportunities, it has also charged him with new responsibilities. For it has complicated the simple details of specifying to a point where a fund of special knowledge is demanded.

CRANE CO. AND THE ARCHITECT'S PROBLEMS

● To unburden the architect of part of this new load and simplify for him the details of plumbing specifications is Crane Co.'s immediate objective. Accordingly, it has commissioned a group of experts to study the relationship of plumbing to building and some of the facts brought out on the following pages, concerning the application of certain fixtures to specific building projects, represent the first steps taken towards that goal.

In assuming this responsibility, Crane Co. has had no intention of poaching on the architect's preserve. In fact, ever since it entered the building material field, Crane Co. has, rather, been actuated by a desire to emphasize the importance of an architect's services.

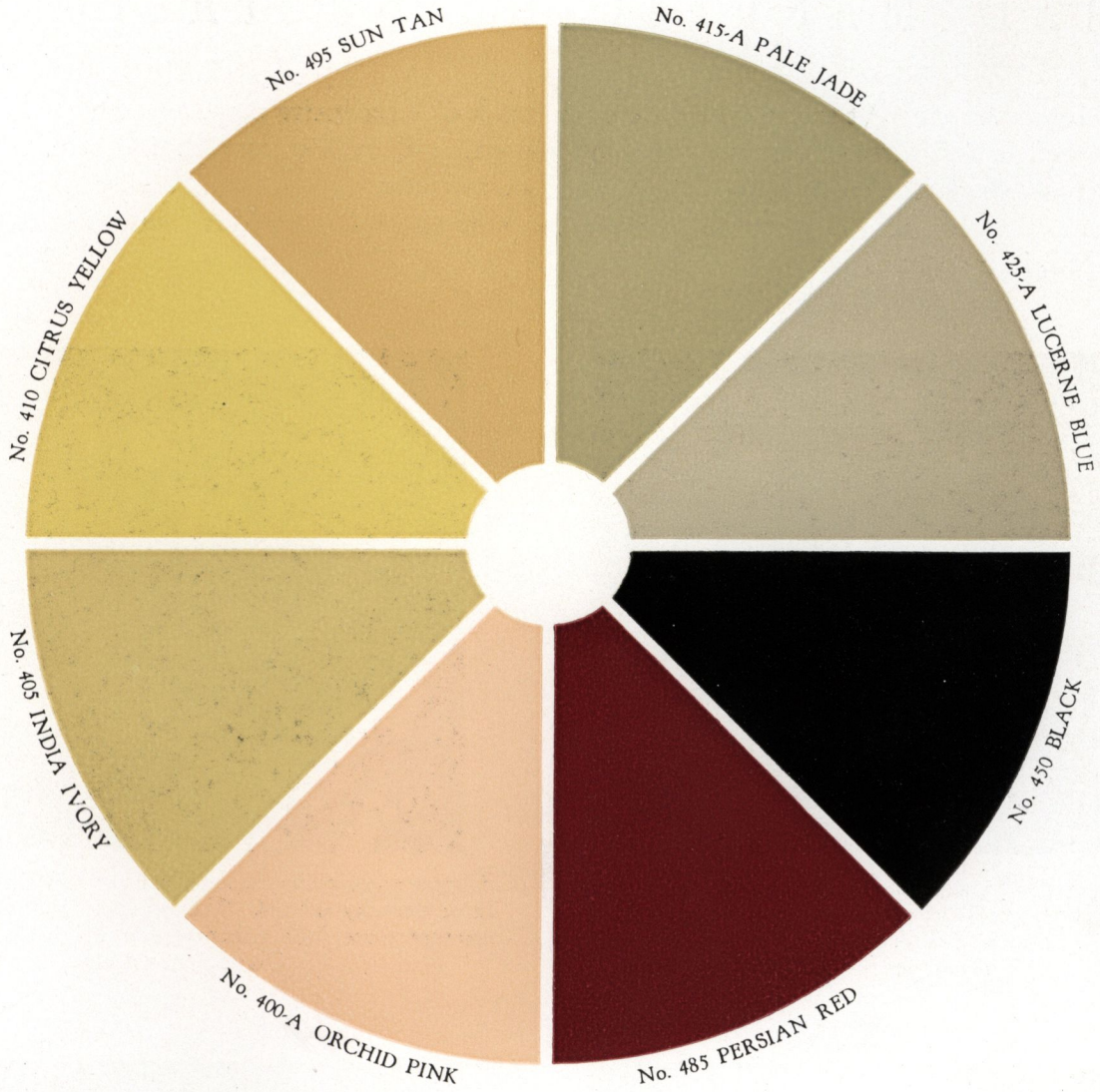
Take as an example just one of the contributions Crane Co. has sponsored.

Years ago when bathrooms were considered to require no special architectural or decorative character and commanded no informed taste, Crane Co. advanced the idea that neither bathrooms nor kitchens needed to be monotonously white. In support of that theory it requested a group of eminent architects to develop plans for decorating them with color.

How this suggestion was received by the public is a matter of history. Today its results are found in modest cottages as well as mansions — in clubs as well as hotels — in steamships as well as streamline trains. And, in an ever increasing number, those installations are witnesses to the taste and special training of an architect. Now, after a long period of work with color, Crane Co. has standardized on eight hues for its fixtures. The chart reproduced on the facing page gives but a suggestion of their true loveliness. For white paper and flat ink cannot reproduce the depth and luster of these colors as they would be represented in vitreous china, porcelain (all-clay) or porcelain enameled cast-iron fixtures.

Unlimited Decorative Opportunities

The decorative possibilities opened up by these eight colors are wide enough to satisfy the most exacting artist. Using them as a pallet, groups and ensembles can be planned in such infinite variety that there is practically no style, no individual scheme of decoration, which cannot be carried to completion ... as the four bathrooms illustrated on pages XII, XIII, XIV and XV suggest. Nor has Crane Co. permitted the limitations of small budgets to confine to pretentious houses the opportunity for creating lovely bathrooms. All eight of these colors have been interpreted, as have the most gracious of its fixture designs, in inexpensive materials.



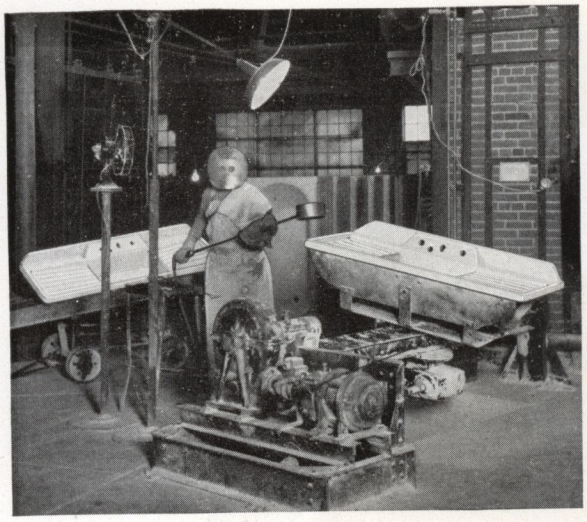
CRANE COLOR CHART

IN attempting to simplify the problem of selecting colors for plumbing fixtures, Crane Co. has taken into account the effect color has on individual personalities. Accordingly, the subtler and more tranquil pastel shades such as Orchid Pink, India Ivory, Citrus Yellow, Sun Tan, Pale Jade, and Lucerne Blue are permitted to dominate . . . these for those who prefer more dramatic tones, have been added: Obsidian Black and Persian Red. These colors are available in all Crane fixtures, whether of vitreous china, porcelain (all-clay) or porcelain enameled cast iron.

Because of the dissimilar characteristics of the materials involved, exact duplications of shades are not possible. But the slight variations which result add to, rather than detract from, the effect. For they create nuances and harmonizations of values which are far more interesting than would be monotonous repetition.

CRANE MANUFACTURING FACILITIES

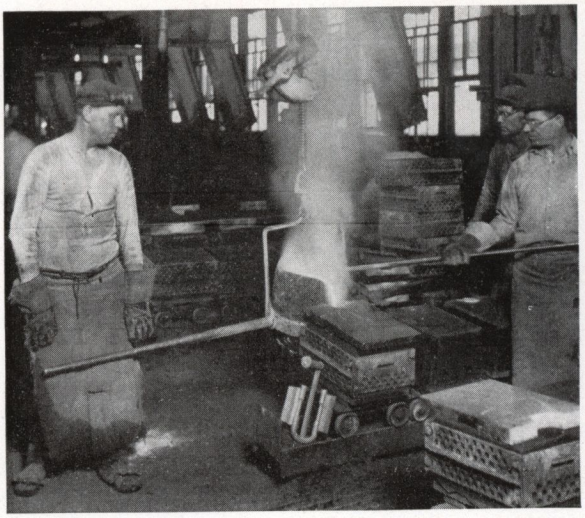
TO reproduce its eight lovely colors in fixtures made of inexpensive porcelain enameled cast iron, as well as in fixtures of vitreous china and porcelain (all-clay), many technical problems had to be overcome by Crane engineering skill. Crane Co. was able to solve them because all these wares are manufactured, like the dependable brass and chromium-plated fixtures with which they are equipped, in its own plants.



Applying the finish coat before the final firing in the manufacture of Crane porcelain enameled cast iron plumbing fixtures. A Crane kitchen sink is shown just before it goes into the furnace for the last time.



A scene in the pottery where Crane vitreous china fixtures are being expertly molded. The exquisite art of the potter is nowhere more fully engaged than in the manufacture of Crane vitreous china.



Pouring molten brass into the mold in the manufacture of Crane quality fittings for plumbing fixtures. Their flawless perfection can be traced to the careful selection of raw materials, as well as to painstaking manufacture.



Inspecting chromium plate finish on Crane brass fittings for plumbing fixtures. The slightest imperfection under the "daylight" reflector machine is glaringly revealed and only pieces that pass this severe inspection are sent to the packing room.

VITREOUS CHINA

VITREOUS china is recognized as the finest, most sanitary and durable material available for lavatories, dressing tables, closets, urinals, and smaller pieces. It is absolutely impervious and not affected by ordinary acids or medicines. It can be cleaned at the touch of a cloth. In appearance and quality it is much the same as the finest china dinner service. It is composed of a mixture of clays, flints and felspars, fired to high temperatures until they fuse and vitrify throughout.

GRADING OF VITREOUS CHINA

CRANE vitreous china is graded in accordance with the uniform grading rules incorporated in Commercial Standards CS20-36, adopted by the industry in co-operation with the Bureau of Standards of the Department of Commerce, United States Government, and is labeled accordingly. The removal of this label should be left to the ultimate owner. When this is done, the plumbing contractor is relieved from possible discussions as to whether the fixtures conform to the specifications.



Sample of label used on Crane Vitreous China Fixtures
(Actual size 4¼ x 3¾ inches)

PORCELAIN (All-Clay)

PORCELAIN is an all-clay product. In making large pieces such as laundry tubs, urinal stalls, sinks and baths it is necessary to use a greater thickness of ware than is used with china. This is because of extra strength required of large pieces. To make these larger pieces in the ware known as porcelain (all-clay), a porcelain clay base is molded in the desired form, and covered with a high fire glazed mixture. When fired, this coating fuses with the base, resulting in an absolutely impervious glassy surface.

GRADING OF PORCELAIN (All-Clay)



Sample of Label used on all Crane Porcelain (All-Clay) Fixtures (Actual size 4 x 4½ inches)

CRANE porcelain (all-clay) is graded in accordance with the uniform grading rules incorporated in Commercial Standard CS4-29, adopted by the industry in co-operation with the Bureau of Standards of the Department of Commerce, United States Government.

While Crane porcelain (all-clay) ware is high quality, it is not without minor imperfections, which must be expected in large pieces. None of the pieces is free from all blemishes and we do not so guarantee them. However, these imperfections will in no way impair the utility or the sanitary qualities of the fixtures.

PORCELAIN ENAMEL on Cast Iron

CRANE Porcelain Enameled fixtures are manufactured in a different way—a dry process that gives finer texture, a beautiful durable glaze and a coating that is approximately three times greater than that possible by other processes.

Porcelain enamel fused on cast iron so as to make them practically inseparable is universally accepted as the only satisfactory method of constructing plumbing fixtures with a metal base. Time has tried and proved that porcelain enameled cast iron plumbing fixtures will stand the wear that plumbing fixtures ordinarily receive.

Crane porcelain enamel on cast iron is manufactured in accordance with the recommendations of the Sanitary Enamel Ware Association and conforms in quality to the accepted standards of Federal Plumbing Fixture Specifications WW-P-541.

A one-year guarantee is made against any manufacturing defects as embodied in label pasted on the crate of each fixture. We recommend, however, that care be taken during building construction to properly protect the fine, gloss finish of all enameled fixtures.

Sample of label that is pasted on the crate of regular enameled fixtures (actual size 4x4½")



Above is the Crane Mark of Quality that is sandblasted on each fixture in an inconspicuous location.

ACID-RESISTING PORCELAIN ENAMEL on Cast Iron

Sample of label that is pasted on the crate of acid-resisting enameled fixtures (actual size 4" x 4½")



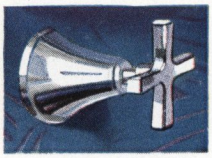
Above is the Crane Signature identifying acid-resisting enamel that is sandblasted on each fixture in an inconspicuous place.

WITHSTANDING stains from fruit juices and ordinary acid, easy to keep clean, long retaining its original glistening luster, Crane acid-resisting enamelware is an improvement that has been eagerly welcomed. Having an especially hard surface, acid-resisting enamel is not easily scratched and is not affected by tile cleaners' acids. Crane acid-resisting porcelain enamel on cast iron is much superior because it is acid resistant all the way through and not merely a surface film. Especially desirable for kitchen fixtures because the juices of lemons, tomatoes and other acid fruits leave it unblemished, it is recommended also as a bath and lavatory ware. All Crane enameled fixtures, white or colored, can be supplied in acid-resisting enamel and each piece has the letter "R" permanently sandblasted in an inconspicuous place. Each also bears a special label.

THE NEW FUNCTION OF FITTINGS



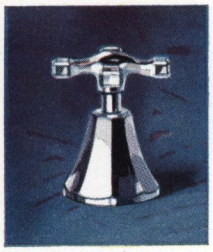
Design 45
Fluted Trimmings



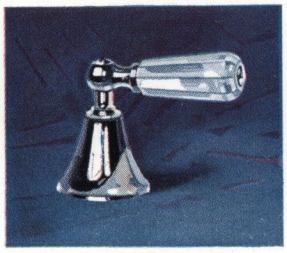
Four-Arm
All-Metal Trimmings

IN remaking materials for bathrooms and kitchens, Crane Co. has not been satisfied with developing new fixtures and improving the substances of which those fixtures are made. It has given equal attention to their fittings . . . the faucets, wastes and drains which bring them utility. They too have been refashioned by artists so that they may proudly fulfill their function of reconciling utility with beauty in modern homes.

Jewel-like in appearance, these new fittings — of which a group is illustrated on this page, are finished in chromium, silver, and gold, which accord best with modern decorative motifs and colors for bathrooms. They are, moreover, designed in related groups so that lavatories, showers and bathtubs can be harmoniously equipped and so that the essential expression of unity, which is the secret of effective bathroom planning, can be maintained in every detail.



Design 40
Octagonal Trimmings



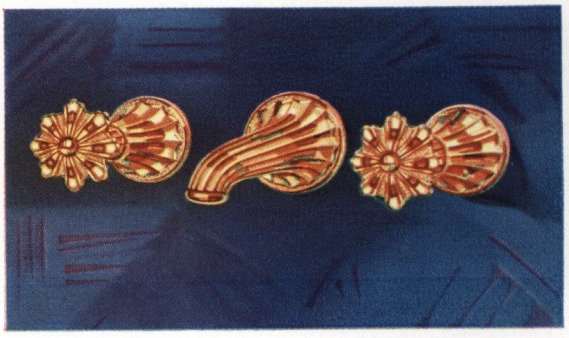
Design 50
Crystal Trimmings



An aristocratic simplicity of form characterizes the Crane Design 50 trimmings, here illustrated in place on a lavatory. The escutcheons are bell-like, the spout square. The crystal glass handles pleasingly set off the shining metal. The design is shown in chromium-plated finish. Or it may be gold or silver plated, according to the decorative scheme of the bathroom.



Shower fittings in the Octagonal Design 40 are here illustrated, plated with non-tarnishing chromium. Gold or silver plate also are offered, when the room decorative scheme calls for either of these finishes.

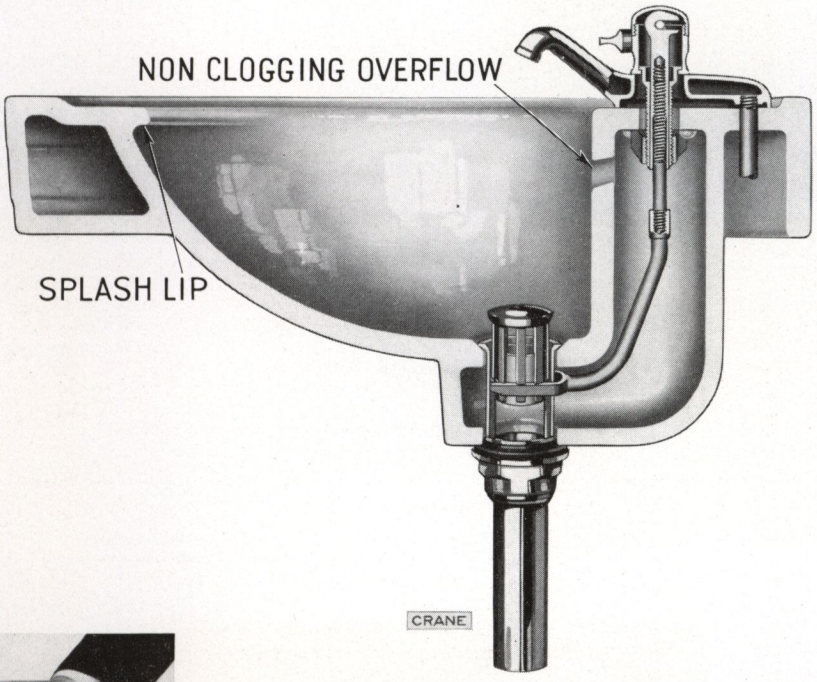


A flower-like effect is attained in the fluted and delicately carved Design 45, here illustrated by the two valves and spout for a bathtub. Note the delicate filigree work of the ornate handles, spout, and escutcheons. A gold-plated finish is shown. Chromium or silver also are recommended, depending on the room decorations used.

MAKING PRACTICAL THINGS BEAUTIFUL

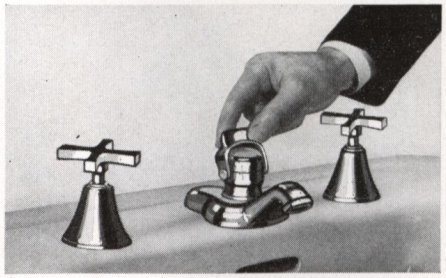
THE Crane materials which are described in detail on the following pages are truly materials in defining which, one might paraphrase William Morris, and say, "Not only is it possible to make beautiful things useful, but there is something wrong with a civilization that does not do this." For not only do Crane fixtures fulfill every canon of taste, but their mechanical functions are distinguished by an ingenuity and efficiency which set them apart. This cross-section of a Crane lavatory is representative of the engineering thought that has been given every unit in the complete Crane line.

Worthy of more than a casual glance is the splash-lip which has been provided to prevent a sudden rush of water from overflowing the bowl and the extra large opening of the overflow punched as it is at an angle, so that pieces of soap and other large objects which might cause clogging cannot pass through. Also worthy of note is the LEVER ACTION *SECURO* quick-draining direct lift waste which will drain the bowl in six seconds . . . a service almost as important to sanitation as it is to convenience. For it causes a rush of water that sweeps most of the suspended particles out through the trap. Simple in design, it has only two moving parts and its operative stem is concealed in the overflow, while its removable metal stopper is equipped with a strainer plug that catches hair and other such trouble-causing materials.



Section Through Crane Vitreous China Lavatory.

This typical section of a Crane high grade vitreous china lavatory shows the splash-lip and overflow through the basin. The splash-lip prevents the sudden rush of water from overflowing the basin while it is filling. The LEVER ACTION SECURO waste is a quick draining, direct lift pop-up with a large, unobstructed outlet. It will drain a lavatory in approximately six seconds.



You'll like the LEVER ACTION SECURO waste — it is simple and positive in operation — just a flip of the lever opens and closes the waste.

WHERE TO OBTAIN CRANE MATERIALS

FOUNDED BY R. T. CRANE, 1855

CRANE CO.

GENERAL OFFICE
836 S. MICHIGAN AVE., CHICAGO
Cable Address: Cranecoy Chicago

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Birmingham, Ala.
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Camden, N. J.
Canton, Ohio
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Charleston, W. Va.
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Oklahoma City, Okla.
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Oshkosh, Wis.
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Phoenix, Ariz.
Pittsburgh, Pa.
Pocatello, Idaho
Portland, Me.
Portland, Ore.
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Pueblo, Colo.
Reading, Pa.
Reno, Nev.
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Santa Ana, Cal.
Santa Barbara, Cal.
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San Francisco, Cal.
Cable Address: Cranexpoco-San Francisco

Cie CRANE

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Cable Address: Ciecrane Paris

Brussels, Belgium
Cable Address: Ciecrane Brussels

CRANE
Limited

Cable Address: Cranelit Montreal

Montreal, Que. *(General Office, Works and City Store)*

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Windsor, Ont.
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DOMINION EXHIBIT ROOMS

Montreal, Que. Ottawa, Ont. Victoria, B. C.

CRANE LTD. (GREAT BRITAIN)

Cable Address: Cranelon London

London, E. 1, England

Ipswich, England *(Nacton Works)*

BRANCH HOUSES

Birmingham, England
Glasgow, Scotland
Manchester, England

OFFICE

Bristol, England

TERMS

Terms: Cash unless otherwise agreed upon.

Prices and Designs: Subject to change without notice.

Contracts subject to strikes, accidents or other causes beyond our control.

No claims allowed unless made within ten days of receipt of goods.

In accordance with the uniform practice adopted by the Plumbing Fixtures Industry, Crane Co. guarantees their plumbing fixtures against any manufacturing defects. If any enamelware, porcelain or vitreous china fixtures prove defective due to faulty workmanship or material within one year after installation, or plumbing brass fixtures within six months after installation, a new article of the same type and size will be furnished. No charges for labor or expense required to repair defective goods, or occasioned by them, will be allowed. If the goods are defective, the measure of the damage is the price of the defective goods only.

Orders covering special goods are not subject to cancellation except upon agreement to make payment for special work which has been performed. By special, we mean colored ware, special drilled white or colored items, and all fixtures having unusual features requiring special manufacture and supervision at the factory.

All tubular goods are carefully tested and inspected, but as it is impossible always to detect imperfections, the only guarantee that is given by us is to replace such goods as prove defective or allow credit for such goods, at our option. Under no circumstances are we responsible for any damages beyond the price of the goods. If goods appear defective, discontinue their use and notify us promptly so the matter may be investigated without delay.

Requests for cancellation of orders calling for odd sizes or cut lengths of pipe and tubing will not be considered if the manufacture of the material has been commenced when the request reaches the mill.

All special goods made to specification, where buyer is to inspect, must be inspected and accepted before shipment is made. After shipment is made our responsibility ceases.

The carriers are responsible for goods lost, damaged or delayed in transit. In case of shortage in, or damage to, goods, the carrier's agent should be required to make and sign notation to that effect on the freight bill. When shortage or damage is not discovered until after delivery is taken, then the carrier's agent should be notified immediately and requested to make inspection and furnish copy of "Concealed Loss and Damage" report.

In case of delay in transit written notice should be given to carrier of intention to file claim for loss due to delay, fully describing shipment.

In every case claims against carriers must be filed within nine months after delivery of shipment or in case of failure to make delivery within nine months after reasonable time for delivery.

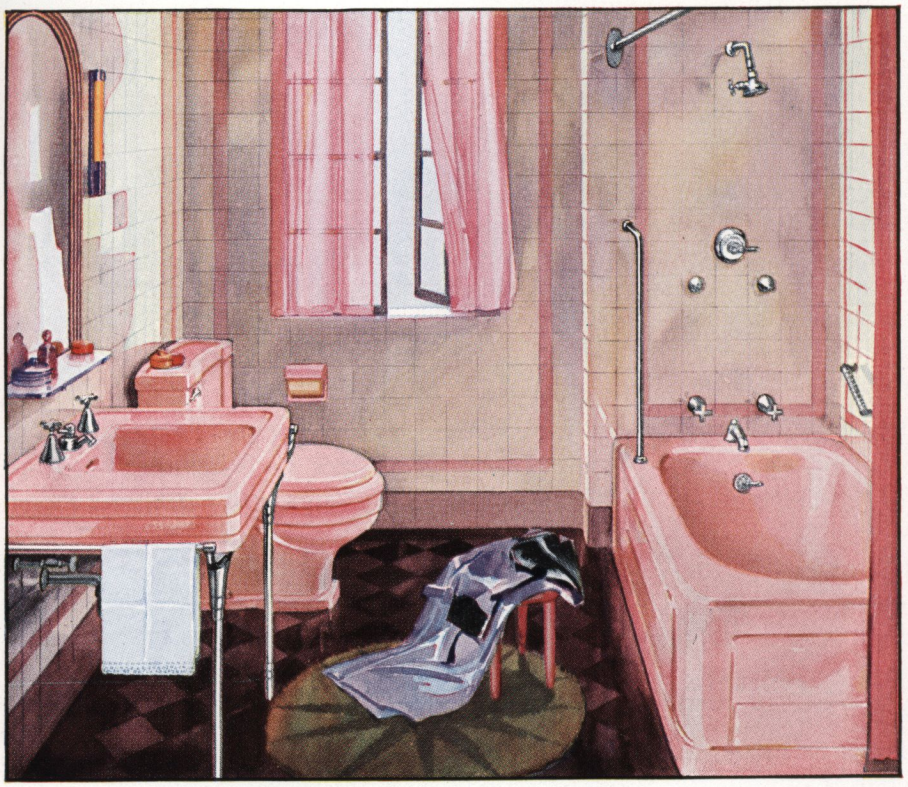
Boxing and cartage are charged at cost.

IMPORTANT TAX NOTICE

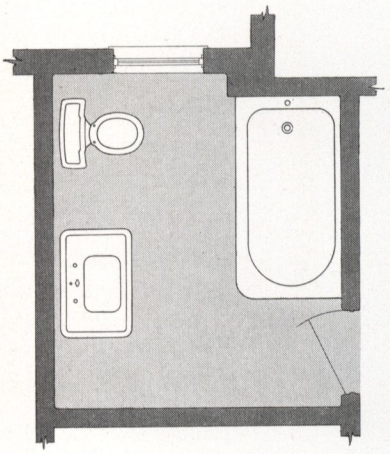
Any Manufacturers' or Sales Tax applicable thereto will be added to the Prices and Terms herein contained.

CRANE CO.

THE MARSHALL GROUP



Styled for Luxury and Distinction



IT IS said that on one of her American tours, Sarah Bernhardt sued a hotel because the bathroom they gave her was so ugly it depressed her. Even such a temperamental artist as she would have been charmed by the beauty of this typical Crane bathroom. The secret of its loveliness lies in the choice of orchid pink for the fixtures, in the subtle echoing of that tone in the walls, and in the effective contrast to it provided by the black and raisin floor.

Particularly worthy of note are the fixtures themselves. For in them many of the new refinements which distinguish modern plumbing are mirrored.

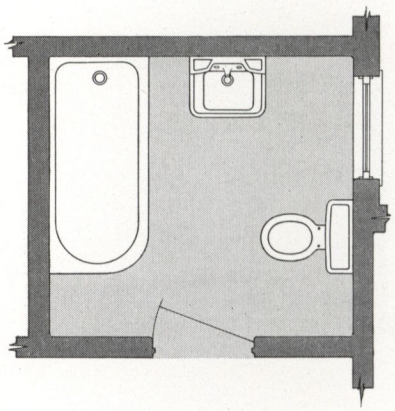
The spacious *MARSHALL* bath, for example, which is of porcelain enamel on cast iron, boasts a broad, flat bottom and wide front ledge. The overhead shower features a mixing valve that will blend water to any desired temperature. A trip of the lever operates the *ACCESSO* waste. Grab bar and hand rail are added for convenience in entering or leaving the bath.

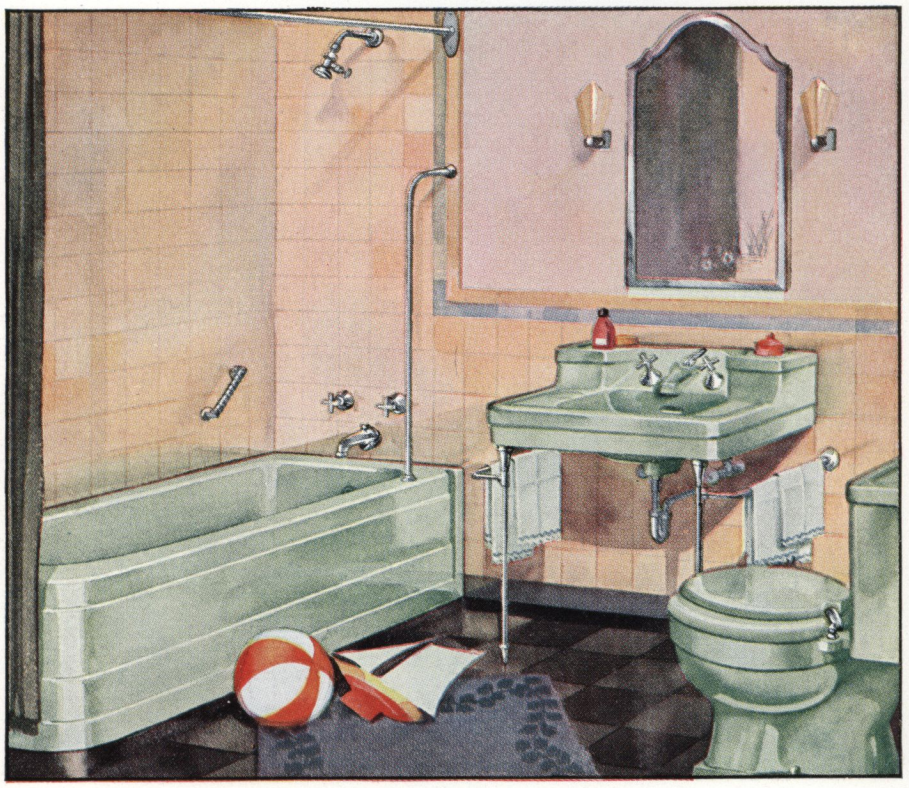
The lavatory is a *CORWITH* endowed with an extra long and spacious bowl which stands upon two trim chromium legs to which are attached graceful towel bars.

The *MONADA* closet is of vitreous china cast in a single piece. Its contours are rounded to offer no lodgment for dirt, and its tank top is fashioned into a convenient shelf.

CONVENIENCE AND BEAUTY

A Widely Approved Ensemble of Related Designs





A SENSE of harmonious relation is instantly apparent in this *CORWITH* bathroom. It results not alone from color, but from design as well. The lack of confusion and the appearance of spaciousness springs from the carefully considered planes and lines of each fixture. Over all is the tranquil effect of pale jade—cool, clean, inviting.

In this room, the *CORWITH* corner bath is of porcelain enamel on cast iron. Its flat bottom makes it serve the added purpose of an efficient receptor for a shower.

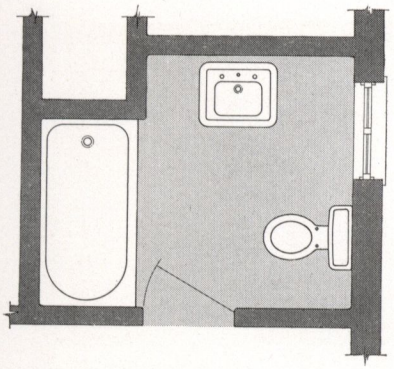
The lavatory, selected as a companion piece, is a *COMPEER*. Its back shelf serves as a rest for toilet accessories and its beveled panel keeps fittings convenient, yet out of the way.

The closet is a *SANTONIA* with siphon-jet action, made of vitreous china, featuring the bolted connection between tank and closet bowl which eliminates the flush tubing. This is desirable from a standpoint of appearance and sanitation.

HARMONIZING COLORS IN THE BATHROOM



High in Quality
Medium in Price



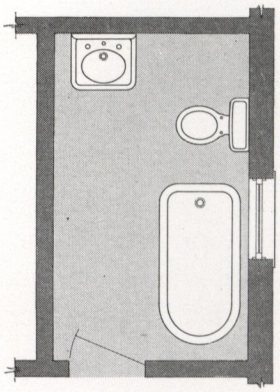
HERE, one group of warm colors ranging from the deep browns of the curtain and floor to the citrus yellow of the bath, lavatory and bowl have been contrasted to illustrate the pleasing combinations which can be created with Crane fixtures in color.

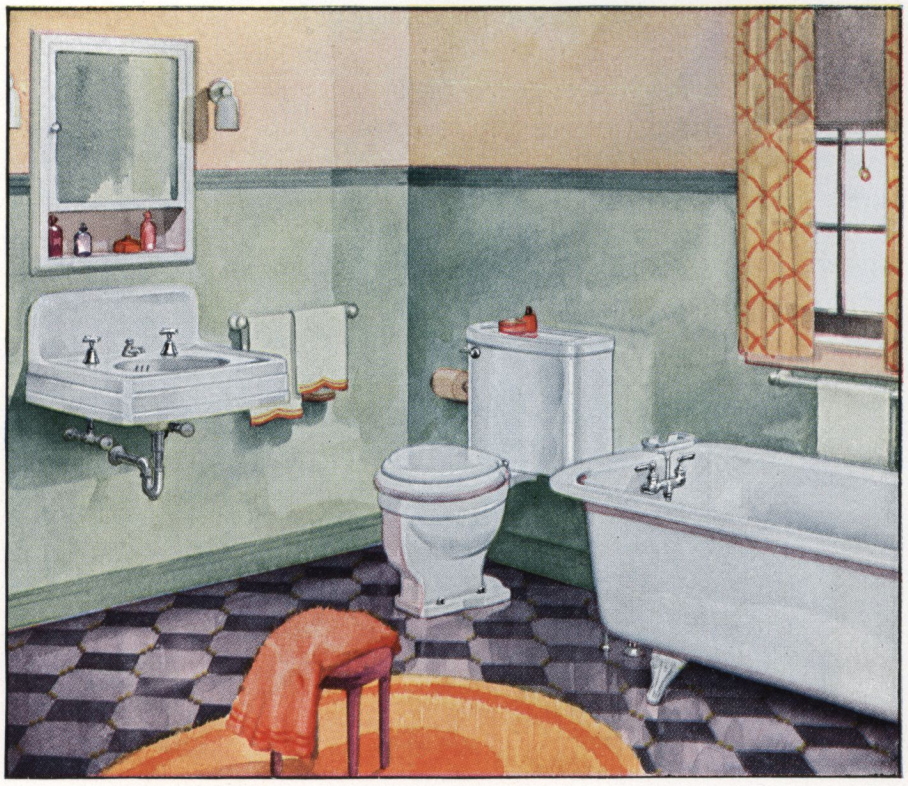
The porcelain enamel on cast iron recess bath, taken from the *CORWITH* group, is large enough to permit one to bathe in luxury and is also equipped with a compression shower.

The pedestal lavatory, selected from the *CORWITH* family of fixtures, is also made of porcelain enamel on cast iron and equipped with a handy metal spout supply and pop-up waste.

The reverse trap *MAURCLONIA* plain rimmed, close coupled vitreous china closet represents the newest advance in design. The *NEUMODE* tank and bowl are bolted together as a single unit. This eliminates unsightly flush connections.

THE MOST MODEST HOME CAN HAVE CRANE QUALITY PLUMBING





CRANE quality in bathrooms does not necessarily mean large expenditures. In proof, this room is offered. The floor is linoleum; the walls are plaster; not a single costly or unnecessary accessory has been added. Yet it would be hard to find a room providing more modern convenience or more dependability. For though the fixtures are the least expensive in the Crane line, they receive the same care in making — the same searching factory inspection when completed as the most expensive materials made by Crane Co.

The porcelain enameled cast iron *DORIS* bath has been selected, not only because of its low price, but also because it saves installation costs by obviating any fitting into walls, corners or recesses. The *COLORADO* lavatory, of porcelain enameled cast iron, is fixed to sturdy, concealed hangers and equipped with *RIVAL* fittings and pop-up waste. The vitreous china *NEUTON* closet has a modern and thoroughly sanitary wash down construction and is equipped with a six gallon *IPSWICH* tank.

THE CRANE EFFICIENT KITCHEN

PERHAPS even more important than the planning of a bathroom, is the designing of a kitchen. For so much of life revolves around this room that unless it is studied in every detail to save steps and lighten the burden of work, the family it serves cannot be contented.

Crane Co.'s contribution goes beyond the designing of a sink which will not tarnish, dent, corrode, or cloud. It covers also an exhaustive study of all the tasks which must be performed in kitchens and the development of refinements which have gone far towards lightening them.

The *SUNNYSIDE* and *SUNNYDAY* cabinet sinks shown in these kitchens are examples. There's no better focal point around which other fixtures could be planned than either of these beautiful sinks. Both are made of the finest porcelain enamel on cast iron.

The *SUNNYSIDE* sink is furnished with an 8″ back for use with the conventional type of fixture. The *SUNNYDAY* sink is furnished with a 4″ back, ideal for the low window; a bevel fixture panel that places the water controls at a new comfort angle, with swinging spout and retractable spray as regular equipment. Both sinks feature integral depressed double drainboards with safety ledges for tumblers and stemware, roomy 8″ deep basins fitted with a utility waste which allows them to be converted into dishwashing receptors. For versatility in kitchen arrangement, both of these sinks can be furnished in free standing, corner, or recess patterns.

From a decorative standpoint, the value of these two sinks is exceptional, for the design of either will bring a note of architectural relief to the continuous table top arrangement which distinguishes the modern and efficient kitchen.



Showing the Crane Efficient Kitchen with the SUNNYDAY sink as its axis.



Another Crane Efficient Kitchen with the SUNNYSIDE cabinet sink.

Crane Kitchen Planning Service will assist you in making a scientific layout.

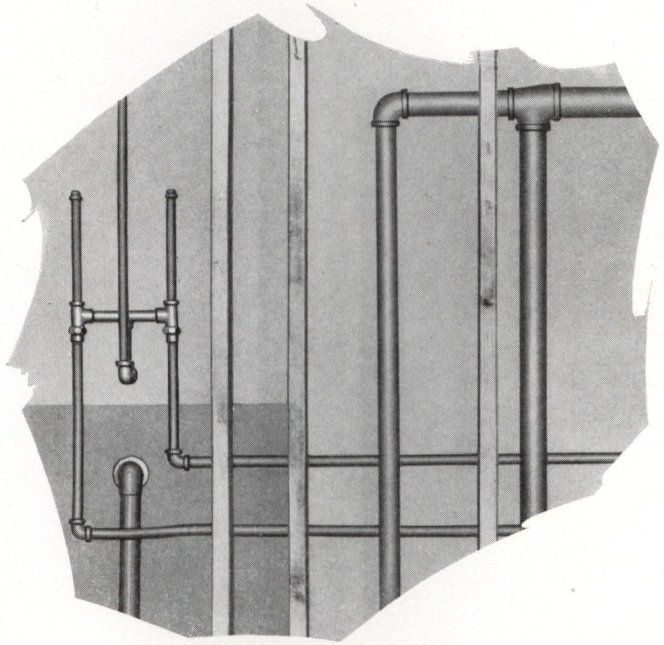
BEHIND THE WALLS LIES REAL ECONOMY

IN planning a satisfactory plumbing installation, there is only one more consideration, and perhaps it is the most important of all. For you can lay out as elaborate bathrooms, kitchens and laundries as you will . . . specify the finest fixtures for them . . . entrust their installation to the best of plumbing contractors . . . but unless the piping materials which serve them are thoroughly dependable, all the care you have exercised will be wasted.

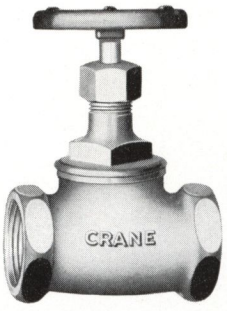
For it is behind the walls and under the floor that the real value of a plumbing installation is determined. Unless the fittings are proof against leaks, unless the valves perform their duties unerringly, sanitation will be endangered, maintenance costs increased and expensive repairs become inevitable.

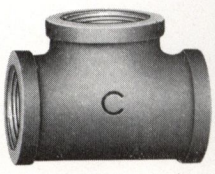
Recognizing this, Crane Co. has built its complete line of plumbing materials logically. Starting with the manufacture of valves and fittings 80 years ago, it perfected them to the point of highest efficiency before it placed a single fixture on the market.

The wisdom of this policy has been proved through too many installations the world over to need any defense. It has brought architects, for many years, a sense of security for which no substitute has ever been developed. For there is true security, true satisfaction in knowing that the efficiency of an installation you specified is underwritten by materials embodying the experience and skill of the same engineers who devised piping for such great projects as the Panama Canal and who plan and make valves and fittings for the highest pressures and temperatures known to industry.











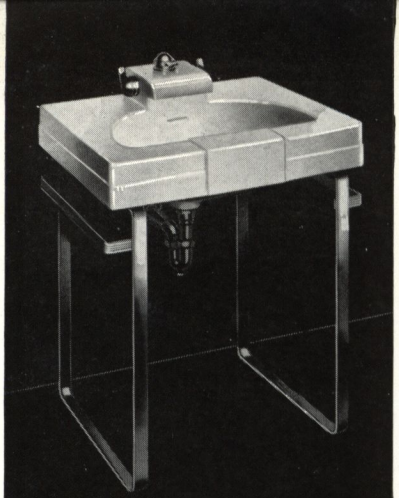




COMPARISON OF OLD NUMBERS WITH NEW NUMBERS IN LAVATORY SECTION OF CRANE CATALOGS.

Old Number	New Number
C 126	C 126
C 128	C 128
C 129-L13	*
C 133	*
C 138	C 138-L1
C 144	Disc.
C 146	Disc.
C 147	Disc.
C 151	Disc.
C 153	Disc.
C 154	C 154-WM11
C 159	C 154-V12
C 165	*
C 166	*
C 167	*
C 168	C 168
C 169	C 170-V12
C 171	C 170-WM11
C 172	Disc.
C 174	C 174
C 178	Disc.
C 180	C 180-V12
C 181	Disc.
C 184	*
C 185	*
C 186	*
C 200	C 200
C 211	Disc.
C 216	Disc.
C 217	Disc.
C 221	*
C 255	C 255-L13
C 257	C 255-R5
C 259	C 255-WM11
C 261	C 255-P5
C 262	C 255-V12
C 263	C 255-V14
C 281	C 279
C 390	Disc.
C 408	C 417-W5
C 425	C 398-L13
C 426	C 398-P5
C 427	C 398-V12
C 507	C 506-V12
C 508	C 506-V14
C 509	C 506-WM11
C 510	C 506-P5
C 511	C 506-R9
C 512	C 506-L13
C 589	C 589-V12
C 591	C 589-V14
C 594	Disc.
C 597	C 597-V12
C 599	C 597-WM11
C 601	C 597-P9
C 602	C 597-R9
C 603	C 597-L13
C 635	*
C 636	C 636-WM11
C 637	C 636-P5
C 641	C 640
C 646	*
C 651	C 650-P5
C 652	C 650-X5
C 654	C 654
C 683	C 682-P5
C 684	C 682-V14
C 685	C 682-V12
C 686	C 682-R5
C 697	C 696-V12
C 698	C 696-V14
C 699	C 696-P5
C 755	C 754-V14
C 757	C 754-V12
C 758	C 754-P5
C 759	C 754-R5
C 760	C 754-L13
C 801	C 800-W5
C 802	C 800-R5
C 1114	C 1101
C 1115	C 1103
C 1116	C 1105
C 1117	C 1107
C 1213	C 1212
C 1223	C 1221
C 1485	C 1485-R1
C 1501	C 1500-P9
C 1511	C 1500-R9
C 1804	C 1804
C 1846	C 1846
C 1874	*
C 1878	*
C 1883	*
C 1910	Disc.
C 1991	C 1991
C 1995-V12	C 1995-V12
C 1995-WM11	C 1995-WM11
C 2000-L13	C 2000-L13
C 2001	Disc.
C 2005	C 2000-V12
C 2006	C 2000-WM11
C 2007	C 2000-W5
C 2008	C 2000-P5
C 2051	C 2050-V12
C 2052	C 2050-WM11
C 2053	C 2050-W5
C 2054	C 2050-P5
C 2055	*
C 2151	C 2150-V12
C 2152	C 2150-V14
C 2153	C 2150-W5
C 2154	C 2150-WM11
C 2155	C 2150-P18
C 2158	*
C 2164	C 2170-V14
C 2165	C 2170-V12
C 2166	C 2170-R5
C 2167	C 2170-P18
C 2168	C 2170-WM11
C 2169	C 2170-W5
C 2171	*
C 2206	C 2200-P18
C 2207	C 2200-R5
C 2208	C 2200-W5
C 2209	C 2200-WM11
C 2247	C 2240-P18
C 2252	C 2251-V14
C 2253	C 2251-V12
C 2254	C 2251-P18
C 2255	C 2251-W5
C 2256	C 2251-WM11
C 2315	C 2320-V14
C 2316	C 2320-V12
C 2317	C 2320-P18
C 2318	C 2320-W5
C 2319	C 2320-R5
C 2349	C 2348-P18
C 2350	C 2348-W5
C 2361	C 2361-P18
C 2371	C 2370-X5
C 2372	C 2370-P18
C 2401	C 2400-P18
C 2402	C 2400-W5
C 2412	C 2412-P18
C 2450	C 2450
C 2454	C 2454
C 2460	C 940
C 2490	C 290
C 2500	C 2100
C 2502	C 2095
C 2504	C 1993
C 2582	C 2582
C 2591	C 2591
C 2640	C 2640
C 2650	C 2650

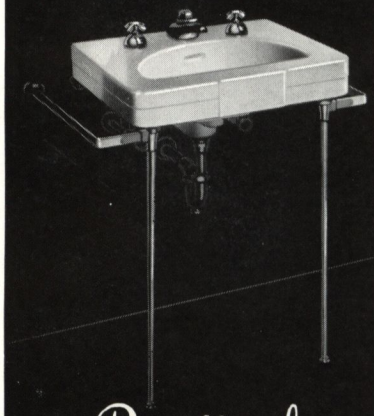
* NO LONGER ILLUSTRATED.



Modern



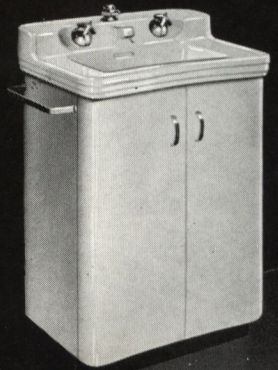
Beautiful



Practical



Convenient



CRANE DISTINCTIVE LAVATORIES

On the following pages, a carefully selected and comprehensive group from the complete Crane line of lavatories is presented. Included are styles and sizes to meet the most exacting demands of the buyer, whatever the requirements or the budget.

Crane lavatories are of vitreous china and regular or acid-resisting enamel on cast iron. Materials used in their production are the very finest obtainable, and regardless of price, all are of one quality—made to assure lasting satisfaction.

For quick reference the general contents comprising the lavatory section are listed below.

VITREOUS CHINA LAVATORIES

On Metal Legs: *Neuvogue— Diana — Corwith — Norwich — Drexel Cromwell — Sterling — Oxford* – – – – – – – – 2-1 to 4-2
On Pedestal: *Neuvogue — Norwich* – – – – – – – – – – – – – – – – 5-1
On Cabinet: *Coronet — Westland Tiled-In* – – – – – – – – – – – – 5-2
On Wall and Chair Carriers: *Diana — Norwich* – – – – – – – – – 6-1
On Single China Leg: *Norwich — Sterling*– – – – – – – – – – – – 6-2
On Concealed Hangers: *Oxford — Sterling — Corwith — Cromwell — Russell — Hermitage — Ipswich — Norwich Chelsea* – – – – – – – – – – – – – – – – – – 7-1 to 8-1
Prison and Dental Lavatories– – – – – – – – – – – – – – – – – – 8-2
Lavatories in Batteries – 9-1
Barber Lavatory and Manicure Table – – – – – – – – – – – – – 9-1
LAVATORY TRIMMINGS – – – – – – – – – – – – – – – – – – 9-2 to 10-1

PORCELAIN ENAMELED LAVATORIES

On Cabinet: *Coronada-Lavinet — Neuday* – – – – – – – – – – – – 10-2
On Metal Legs and Pedestal: *Corwith — Corona* (on brackets) — *Neuday* – – – – – – – – – – – – – 11-1
On Concealed Hangers and Single Leg: *Neuday — Rhodile — Colorado — Nevada — Norfolk — Carolina — Kent* – – – – – – – – 11-2 to 12-1
On Concealed Hangers: *Eaton — Rugby — Closin — Fairfax — Wilton* – – – – – – – – – – – – – – – – – 12-2
Prison Lavatories – 13-1
Lavatories in Batteries – 13-1
WASH SINKS – 14-1

Panel Design

In designing Crane lavatories, straight and curved lines have been skillfully joined to produce streamline panel effects which definitely complement modern architectural trends. Extending this treatment to closet and bath fixtures, permits selection of many combinations to create matched bathroom ensembles.

Features

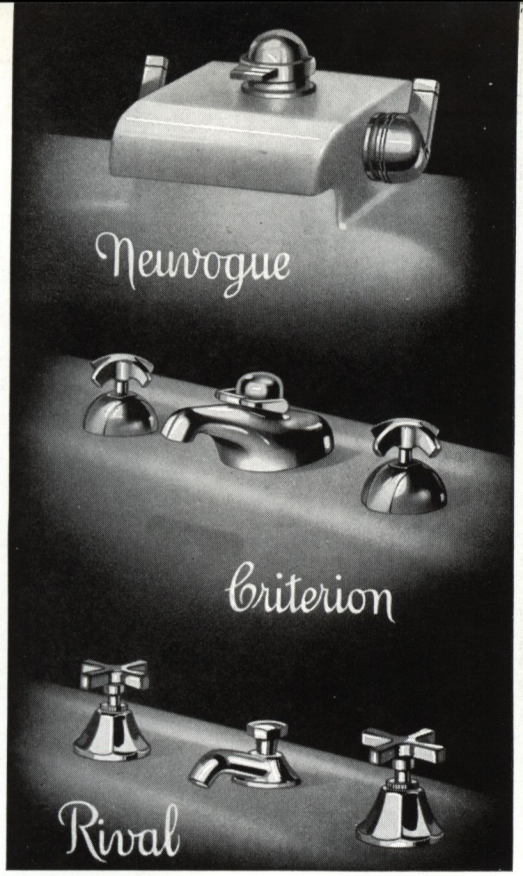
The complete Crane line of lavatories includes many new and advanced features which provide the utmost in utility and efficiency as well as style and smart appearance. "D" shaped basins providing greater washing area at front and larger free slab space at back, raised shelf backs providing a dry place for toilet articles, and sloping fixture panels placing control valves at a convenient angle, are just a few of the unusual features available.

PLANNING SERVICES

Supplementing Crane display rooms, catalogs and product literature, are a number of Crane planning services available to the Architect or Plumbing contractor seeking ideas for the solution of any specific problem in bathroom, kitchen, laundry or heating plant. Your nearby Crane representative will gladly explain and make these services available to you.

CRANE LAVATORY TRIMMINGS

With the development of Crane paneled fixtures, creation of complementary sets of matched trimmings became the logical forward step in providing complete style harmony for the modern bathroom. With this in mind, Crane Co. developed matched trimming sets in three unusual patterns: *Neuvogue*, *Criterion*, and *Rival*, each carefully designed to provide lasting qualities of style and function.



NEUVOGUE

The attractive *Neuvogue* pattern trimmings are ultra-modern in style and include many innovations in functional design, convenience and practicability. This group is especially designed for use with *Neuvogue* fixtures, completing a distinctive style group for the bathroom of character.

CRITERION

Newest in the Crane line are the charming *Criterion* pattern trimmings, styled to today's desire for things modern—yet conventional enough to suit more conservative tastes.

Distinctively different is the smooth sweeping design which permits quick and thorough cleaning. The curved handles complement the free-flowing lines of hemispherically shaped escutcheons. The *Criterion* pattern with its panel effects provides trimmings which harmonize perfectly with Crane paneled fixtures.

RIVAL

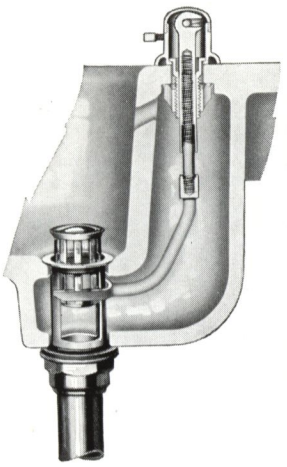
The smart looking *Rival* pattern trimmings need no introduction. For years they have been an old standby with those who have learned the economy of quality at reasonable initial cost. The *Rival* line combines sound engineering principles and good workmanship to provide practical utility at a cost within the modest budget.



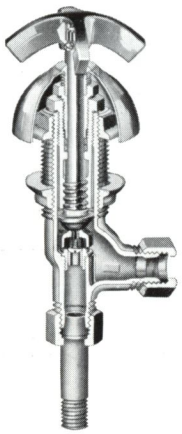
The Criterion unit fixture has simple finger tip Securo waste operation.

LEVER ACTION SECURO WASTE

Featured exclusively for Crane lavatories, the *Lever Action Securo* waste is an outstanding improvement in sanitation. It is sturdily constructed and designed to drain basin so rapidly that the resulting rush of water greatly helps to keep it clean. A quarter turn of the strainer permits its being lifted from basin for cleaning.



Section thru lavatory with lever action Securo waste.



Section thru lavatory valve.

LAVATORY VALVES

The sturdy valves furnished with Crane lavatory supply fixtures are designed to give years of trouble-free service. Included are all the latest and finest engineering refinements such as renewable seats, replaceable center-piece units which permit renewing stem threads, swivel discs to reduce wear, and discs encased to prevent spreading in service. All wearing parts are easily removable for repair or replacement without disturbing the valves.



Section thru Triumph faucet.

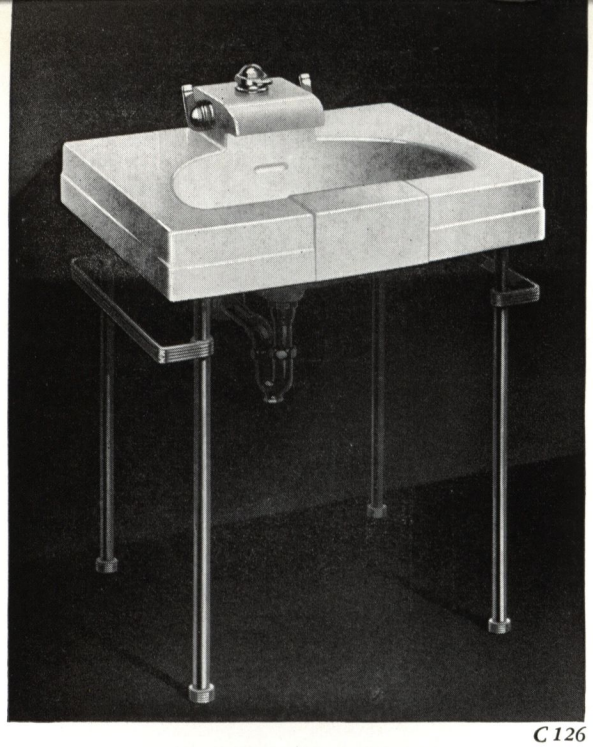
LAVATORY FAUCETS

Crane faucets are heavily constructed, and designed to provide lasting, dependable service. They are smart looking, with spouts raised sufficiently to prevent any possible black-flow of basin water. *Agilis* and *Telsa* faucets feature renewable valve seats and *Newsleeve* units which permit replacement of entire operating mechanism without removing faucet from fixture. *Triumph* self-closing faucets also have renewable seats and replaceable trimming units. All renewable units are interchangeable, fitting into the body castings of any of these faucets.



Section thru Telsa faucet.

CRANE VITREOUS CHINA LAVATORIES



C 126

NEUVOGUE—C 126

LAVATORY: *Neuvogue* china lavatory; semi-oval basin, splash lip, integral supply fixture hood.

SUPPORT: C 33-700 *Neuvogue* tubular legs, with towel bars; C 33-719 wall brackets.

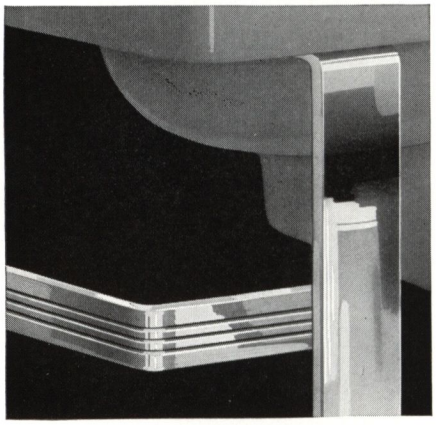
TRIMMINGS: *Neuvogue;* C 32-255 supply fixture; C 32-353 lever action *Securo* waste.

SUPPLIES: C 32-524, 3/8" angle stop supplies.

TRAP: C 33-900, 1¼" cast brass "P" trap.

Exposed metal chromium plated.

Size: 27 x 22"; basin 21 x 12".



Showing the towel bar on the C 128 lavatory.

Neuvogue Features

Ultra-modern lines for the fine home

Modern practical beauty, providing that keen sense of satisfaction in possessing the unusual.

Styled by one of America's foremost industrial designers, the *Neuvogue* line includes lavatories, baths and closets, permitting selection of a harmonious, matched ensemble for the bathroom.

Semi-oval basin design provides greater slab area at the back and larger washing area at the front, where most needed.

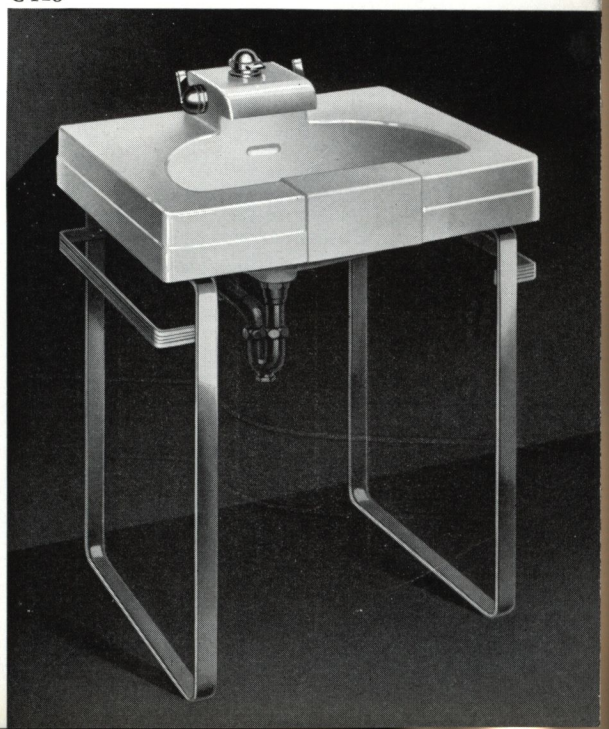
Lever action *Securo* waste assures rapid draining.

Supply fixture completely enclosed in easily cleaned hood which enhances beauty of the lavatory.



Showing lower part of leg on C 126 lavatory.

C 128



NEUVOGUE—C 128

LAVATORY: *Neuvogue* china lavatory; semi-oval basin, splash lip, integral supply fixture hood.

SUPPORT: C 33-701 *Neuvogue* flat bar type support, with towel bars; C 33-719 wall brackets.

TRIMMINGS: *Neuvogue;* C 32-255 supply fixture; C 32-353 lever action *Securo* waste.

SUPPLIES: C 32-524, 3/8" angle stop supplies.

TRAP: C 33-900, 1¼" cast brass "P" trap.

Exposed metal chromium plated.

Size: 27 x 22"; basin 21 x 12".

CRANE VITREOUS CHINA LAVATORIES

DIANA—C 129-L1

LAVATORY: *Diana* china lavatory; semi-oval basin, splash lip.

SUPPORT: *C 33-668 *Criterion* metal legs with towel bars; C 33-719 wall brackets.

TRIMMINGS: L1 *Criterion*, comb. supply and lever action *Securo* waste fixture.

SUPPLIES: C 32-547, ⅜″ angle stop supplies with reducers.

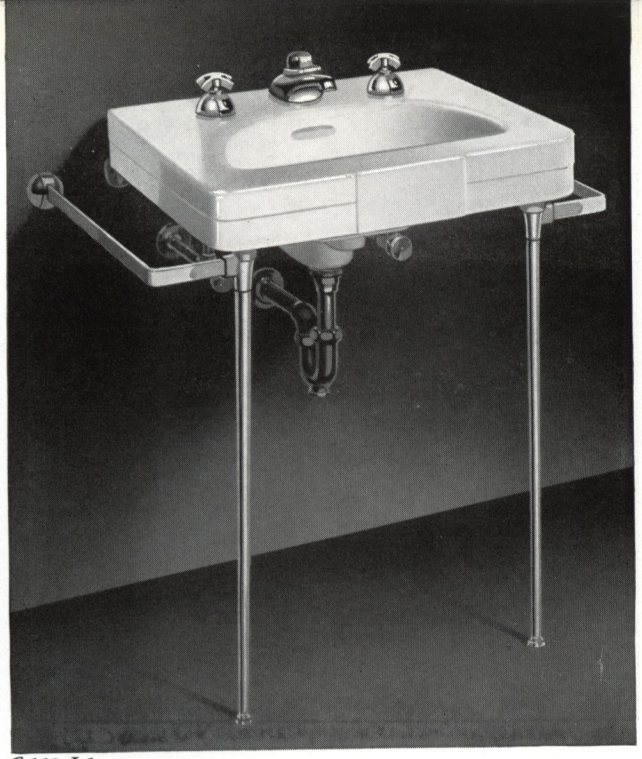
TRAP: C 33-900, 1¼″ cast brass "P" trap.

Exposed metal chromium plated.

Sizes: 24 x 20″ and 27 x 21″.
Basin: 18 x 11½″, 21 x 12½″.

NOTE: Available with any L or K trimmings. Also E trim for 24″ size.

*If without towel bars, specify C 33-672 legs.



C 129-L1

Illustrating K1 Criterion three water supply fixture.



Diana Features

The style leader in modern lavatory design

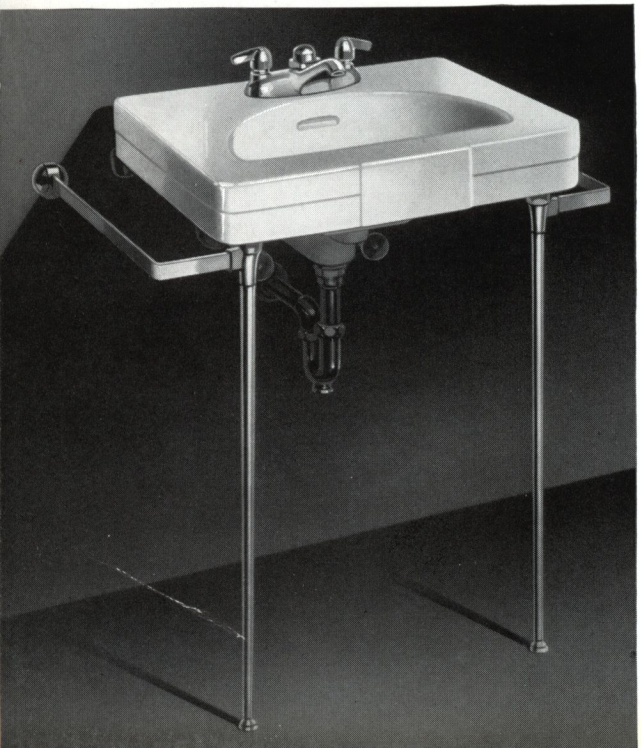
Both lavatory and trimmings combine streamline panel effects with receding horizontal planes, to provide a graceful simplicity and smartness which will complement any modern bathroom treatment.

Large semi-oval basin with flat side to the front provides larger free slab space at the back and greater washing area at front where most needed.

The new *Criterion* combination fixture provides tempered water thru a single spout and rapid draining with the lever action *Securo* waste.

The *Diana* will harmonize well with *Neuvogue* and *Coronova* baths, our new line of low tank closets and other fixtures in the Crane line.

C 129-E2



DIANA—C 129-E2

LAVATORY: *Diana* china lavatory; semi-oval basin, splash lip.

SUPPORT: *C 33-668 *Criterion* metal legs with towel bars; C 33-719 wall brackets.

TRIMMINGS: E2 *Criterion*, unit supply and lever action *Securo* waste fixture.

SUPPLIES: C 32-547, ⅜″ angle stop supplies; C 32-541 offset reducers.

TRAP: C 33-900, 1¼″ cast brass "P" trap.

Exposed metal chromium plated.

Size: 24 x 20″.
Basin: 18 x 11½″.

NOTE: Available with any L, K or E trimmings.

*If without towel bars, specify C 33-672 legs.

For 27″ size, refer to C 129-L1 shown above.

Trimmings . . . . . Page 9-2.

CRANE VITREOUS CHINA LAVATORIES



C 138-L1

CORWITH—C 138-L1

Distinctive design in a large lavatory for the master bathroom

LAVATORY: *Corwith* china lavatory; rectangular basin, splash lip.

SUPPORT: *C 33-668 *Criterion* metal legs with towel bars; C 33-719 wall brackets.

TRIMMINGS: L1 *Criterion*, comb. supply and lever action *Securo* waste fixture.

SUPPLIES: C 32-547, 3/8" angle stop supplies with reducers.

TRAP: C 33-900, 1¼" cast brass "P" trap.

Exposed metal chromium plated.

Sizes: 33 x 24", 36 x 24" and 42 x 24"—Basins, 18½ x 13".

NOTE: Available with any L or K trimmings.

*If without towel bars, specify C 33-672 legs.

C 154-L13



NORWICH—C 154-L13

Providing exclusive Crane lavatory features for average cost bathrooms.

LAVATORY: *Norwich* china lavatory; rectangular basin, splash lip. (Soap depression on 24" size only.)

SUPPORT: C 33-678 *Rival* metal legs; C 33-719 wall brackets.

TOWEL BARS: C 33-663 reversible towel bars.

TRIMMINGS: L13 *Rival*, comb. supply and lever action *Securo* waste fixture.

SUPPLIES: C 32-547, 3/8" angle stop supplies with reducers.

TRAP: C 33-900, 1¼" cast brass "P" trap.

Exposed metal chromium plated.

Sizes: 24 x 21", 27 x 22" and 30 x 24".

Basin: 16 x 11", 17 x 12", 18½ x 13".

NOTE: Available with any L, WM, W, P or K trimmings. Also E, V or R trim for 24" size. (For 20" size, see C 154-WM11.)

C 154-WM11



NORWICH—C 154-WM11

A fine modern lavatory within modest budget requirements

LAVATORY: *Norwich* china lavatory; rectangular basin, splash lip. (Soap depression on 20 and 24" sizes.)

SUPPORT: C 33-678 *Rival* metal legs; C 33-719 wall brackets.

TOWEL BARS: C 33-663 reversible towel bars.

TRIMMINGS: WM11 *Rival*, comb. supply and pop-up waste fixture.

SUPPLIES: C 32-547, 3/8" angle stop supplies with reducers.

TRAP: C 33-900, 1¼" cast brass "P" trap.

Exposed metal chromium plated.

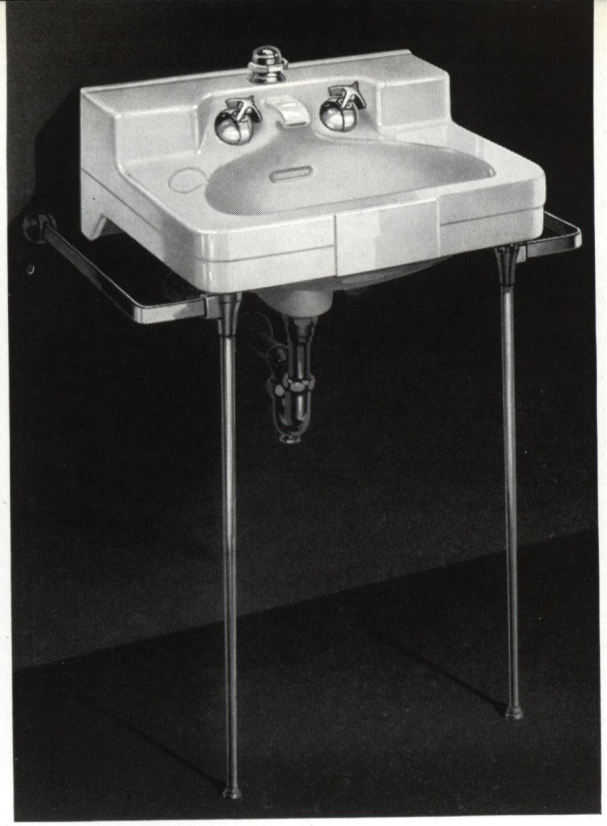
Sizes: 20 x 18", 24 x 21", 27 x 22" and 30 x 24".

Basin: 14 x 11", 16 x 11", 17 x 12", 18½ x 13".

NOTE: Available with any WM, W or P trimmings. Also V or R trim for 20 and 24" sizes, E trim for 24" size and L or K trim for 24, 27 and 30" sizes.

Trimmings . . . . . Pages 9-2 and 10-1.

CRANE VITREOUS CHINA LAVATORIES



C 163

DREXEL—C 163

LAVATORY: *Drexel* china lavatory; shelf back, raised integral spout, sloping valve panels, semi-oval basin, splash lip, soap depression.

SUPPORT: C 33-668 *Criterion* metal legs with towel bars; concealed hanger.

TRIMMINGS: *Criterion;* C 32-376 supply valves; C 32-358-S lever action *Securo* waste.

SUPPLIES: C 32-547, 3/8" angle stop supplies with reducers.

TRAP: C 33-900, 1¼" cast brass "P" trap.

Sizes: 22 x 18" and 27 x 21".
Basin: 17 x 10⅝", 21 x 12".

Note: If without towel bars, specify C 33-672 legs.

Drexel Features

Combining beauty and practical design for the modern bathroom

Extra large basin of unique design provides width at the front where it is most needed.

Three-inch shelf back provides a dry place to hold toilet articles.

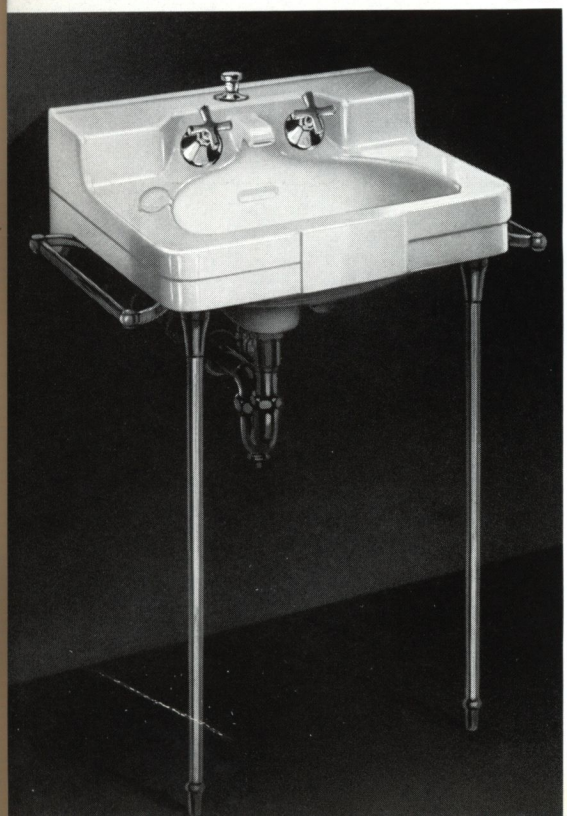
Supply valves are conveniently located on an angle panel, leaving the basin free from obstructions.

Spout above the basin, eliminates any danger of back-flow of basin water.

Fitted with new *Criterion* fixture having lever action *Securo* waste which assures rapid draining, or *Rival* fixture with indirect lift pop-up waste.

The *Drexel* will harmonize well with *Neuvogue* and *Coronova* baths, our new line of low tank closets and many other modern Crane fixtures.

C 168



DREXEL—C 168

LAVATORY: *Drexel* china lavatory; shelf back, raised integral spout, sloping valve panels, semi-oval basin, splash lip, soap depression.

SUPPORT: C 33-678 *Rival* metal legs; concealed hanger.

TOWEL BARS: C 33-663 reversible towel bars.

TRIMMINGS: *Rival;* C 32-375 supply valves; C 32-380-S indirect lift waste.

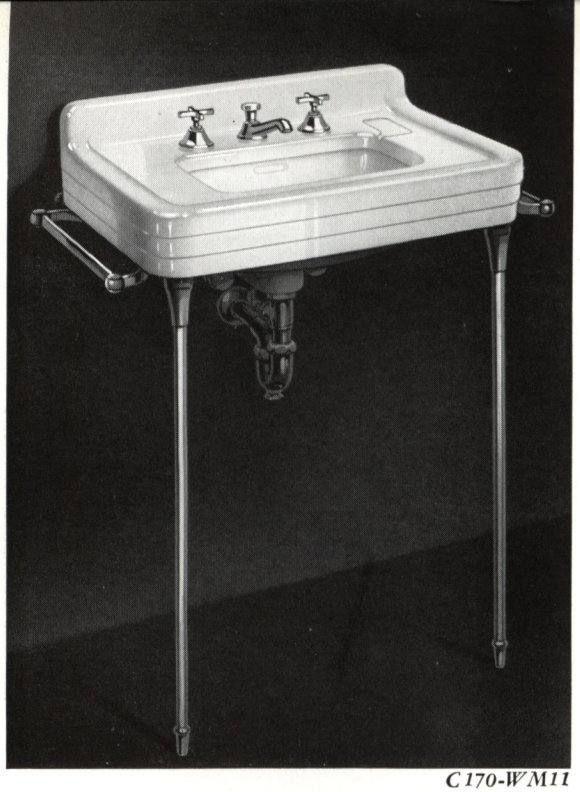
SUPPLIES: C 32-547, 3/8" angle stop supplies with reducers.

TRAP: C 33-900, 1¼" cast brass "P" trap.

Sizes: 22 x 18" and 27 x 21".
Basin: 17 x 10⅝", 21 x 12".

Exposed metal chromium plated

CRANE VITREOUS CHINA LAVATORIES



C 170-WM11

CORWITH—C 170-WM11

LAVATORY: *Corwith* china lavatory; 2½″ back, rectangular basin, splash lip, soap depression.

SUPPORT: C 33-678 *Rival* metal legs; enameled wall brackets.

TOWEL BARS: C 33-663 reversible towel bars.

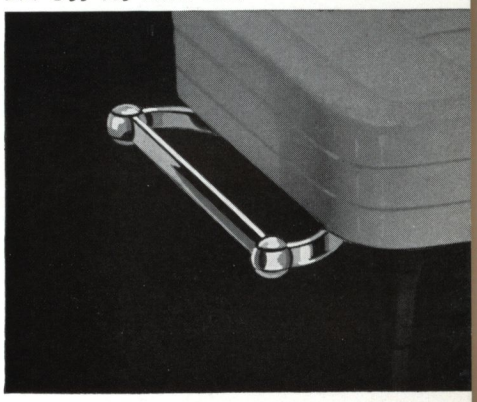
TRIMMINGS: WM11 *Rival*, comb. supply and pop-up waste fixture.

SUPPLIES: C 33-547, ⅜″ angle stop supplies with reducers.

TRAP: C 33-900, 1¼″ cast brass "P" trap.
Exposed metal chromium plated.
Sizes: 23½ x 17½″, basin 14¾ x 9¾″.

NOTE: Available with any suffix letter WM, W, P or V trimmings.

The C 33-663 towel bar.



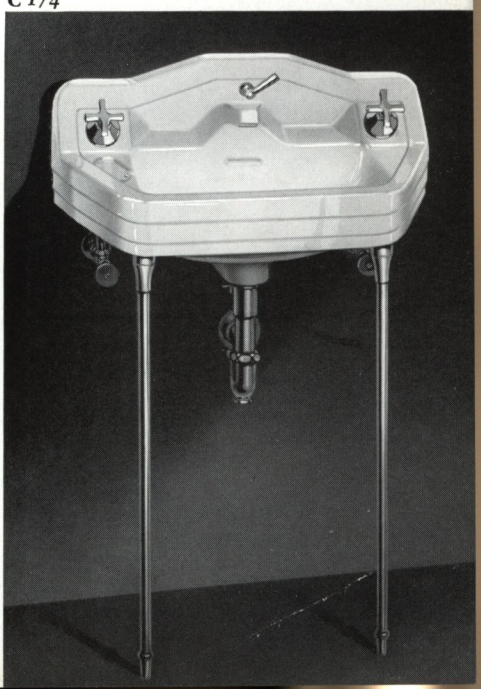
Corwith and Cromwell Features

Ideal for the small bathroom or powder room

Often times there is need for a small lavatory suitable for the odd shaped bathroom, the small downstairs lavatory room, or powder room. The *Corwith* and *Cromwell* lavatories (also the *Oxford* on page 4-2) are in sizes especially adaptable to these conditions.

Combining practical utility with modern lines, they harmonize well with other fixtures of the Crane line.

C 174



CROMWELL—C 174

LAVATORY: *Cromwell* china lavatory; 5¼″ back, raised integral spout, sloping valve panels, rectangular basin, splash lip, soap depression.

SUPPORT: C 33-678 *Rival* metal legs; concealed hanger.

TRIMMINGS: *Rival;* C 32-374-B supply valves, C 32-381 pop-up waste thru back.

SUPPLIES: C 32-531, ⅜″ angle stop supplies.

TRAP: C 33-900, 1¼″ cast brass "P" trap.
Exposed metal chromium plated.
Size: 26 x 14″, basin 16 x 9¾″.

Trimmings . . . . . Pages 9-2 and 10-1

CRANE VITREOUS CHINA LAVATORIES

STERLING—C 180-E2

LAVATORY: *Sterling* china lavatory; 2″ high shelf back, rectangular basin, splash lip.

SUPPORT: *C 33-668 *Criterion* metal legs with towel bars; enameled wall brackets.

TRIMMINGS: E2 *Criterion*, unit supply and lever action *Securo* waste fixture.

SUPPLIES: C 32-547, ⅜″ angle stop supplies; C 32-541 offset reducers.

TRAP: C 33-900, 1¼″ cast brass "P" trap.

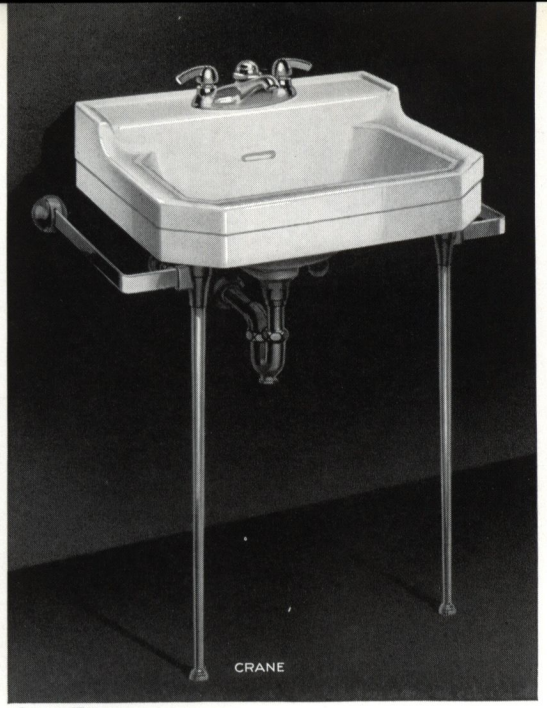
Exposed metal chromium plated.

Sizes: 20 x 18″ and 24 x 21″.

Basin: 15½ x 10¼″, 19½ x 13¼″.

NOTE: Available with any E or V trimmings.

*If without towel bars, specify C 33-672 legs.



C 180-E2

Sterling Features

Modern design providing spacious washing area without increase in standard overall lavatory dimensions.

The raised shelf at back provides ample space for toilet articles away from moisture.

The smart looking *Criterion* fixture provides tempered water thru a single spout and rapid draining with the lever action *Securo* waste.

The Sterling is ideal for those desiring a smart looking lavatory with spacious wash basin area.

The Oxford is very desirable for the small bathroom, powder room or first floor toilet room.

C 183



Oxford Features

Compact, modern style and extremely smart appearance.

The large rectangular basin provides ample space for washing.

3½″ raised shelf back provides a dry resting place for toilet articles.

Supply and waste controls are mounted on an angle panel, convenient for the user and leaving basin free from obstruction.

Spout is above rim of basin eliminating danger of back-flow and providing water mixed to the desired temperature.

OXFORD—C 183

LAVATORY: *Oxford* china lavatory; 3½″ high shelf back, sloping fixture panel, rectangular basin, splash lip, soap depression.

SUPPORT: C 33-677 *Rival* metal legs; concealed hanger.

TOWEL BARS: C 33-663 reversible towel bars.

TRIMMINGS: C 32-166 comb. supply and direct lift waste fixture with *Newsleeve* units.

SUPPLIES: C 32-547, ⅜″ angle stop supplies; C 32-541 offset reducers.

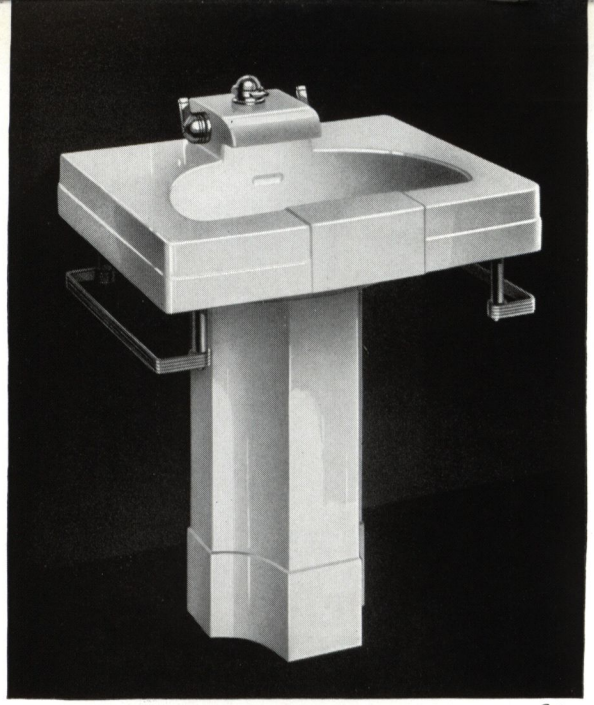
TRAP: C 33-900, 1¼″ cast brass "P" trap.

Exposed metal chromium plated.

Size: 19 x 17″, basin 14 x 11″.

Trimmings . . . . . Page 9-2

CRANE VITREOUS CHINA LAVATORIES



C 200

NEUVOGUE—C 200

LAVATORY: *Neuvogue* china pedestal lavatory; semi-oval basin, splash lip, integral supply fixture hood; enameled wall brackets.

TRIMMINGS: *Neuvogue;* C 32-255 supply fixture; C 32-353 lever action *Securo* waste.

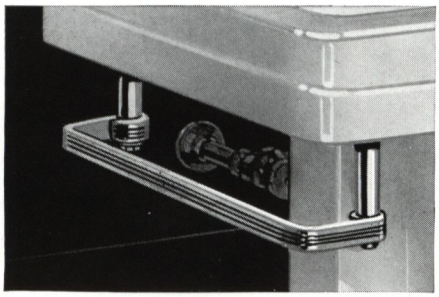
TOWELBARS: C 33-664 *Neuvogue* reversible towel bars.

SUPPLIES: C 32-524, 3/8" angle stop supplies.

TRAP: C 33-900, 1¼" cast brass "P" trap.

Exposed metal chromium plated.

Size: 27 x 22", basin 21 x 12".



Showing the C 33-664 towel bar available with the Neuvogue pedestal lavatory.

Neuvogue Features

Ultra-modern lines for the fine home

Modern practical beauty, providing that keen sense of satisfaction in possessing the unusual.

Styled by one of America's foremost industrial designers, the *Neuvogue* line includes lavatories, baths and closets, permitting selection of a harmonious, matched ensemble for the bathroom.

Semi-oval basin design provides greater slab area at the back and larger washing area at the front, where most needed.

Lever action *Securo* waste assures rapid draining.

Supply fixture completely enclosed in easily cleaned hood which enhances beauty of the lavatory.

C 255-L13



NORWICH—C 255-L13

A high grade lavatory of conservative pattern for owner desiring pedestal support.

LAVATORY: *Norwich* china pedestal lavatory; rectangular basin, splash lip; enameled wall brackets. (Soap depression on 24" size only.)

TRIMMINGS: L13 *Rival*, comb. supply and lever action *Securo* waste fixture.

SUPPLIES: C 32-547, 3/8" angle stop supplies with reducers.

TRAP: C 33-900, 1¼" cast brass "P" trap.

Exposed metal chromium plated.

Sizes: 24 x 21", 27 x 22" and 30 x 24".
Basin: 16 x 11", 17 x 12", 18½ x 13".

NOTE: Available with any L, K ,WM, W or P trimmings. Also E, V or R trim for 24" size.

Trimmings . . . . . Pages 9-2 and 10-1

CRANE VITREOUS CHINA LAVATORIES

CORONET—C 279

The style leader of cabinet lavatories.

LAVATORY: *Coronet* china lavatory; 2½″ high shelf back, raised integral spout, sloping valve panels, rectangular basin, splash lip.

TRIMMINGS: *Criterion;* C 32-376 supply valves; C 32-358-S lever action *Securo* waste.

SUPPLIES: C 32-547, ⅜″ angle stop supplies with reducers.

TRAP: C 33-900, 1¼″ cast brass "P" trap.

CABINET: *Coronet* baked enamel steel cabinet; three shelf compartments in each door, one cabinet shelf; C 33-669 towel bars.

Exposed brass chromium plated.
Size: 24 x 20″, basin 16 x 11″.



C 279

CORONET—Features

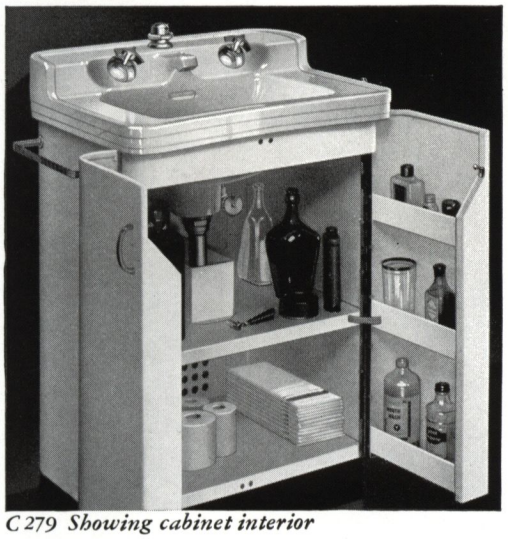
A cabinet lavatory of unusual design and graceful appearance, the front being slightly concave, permitting closer approach for washing—the sides and back are slightly convex.

The raised shelf back provides a dry place for toilet articles.

Supply valves are set on an angle panel, more convenient for user. The integral spout provides tempered water and is raised above basin to eliminate any danger of back-flow of basin water.

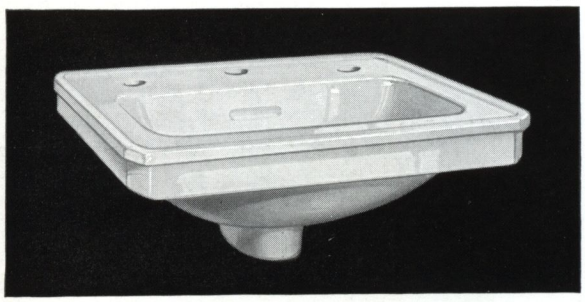
Fitted with the distinctive new *Criterion* supply fixture with lever action *Securo* quick draining waste.

The *Coronet* harmonizes well with either *Neuvogue* or *Coronova* bath and any of the new Crane line of low tank closets.

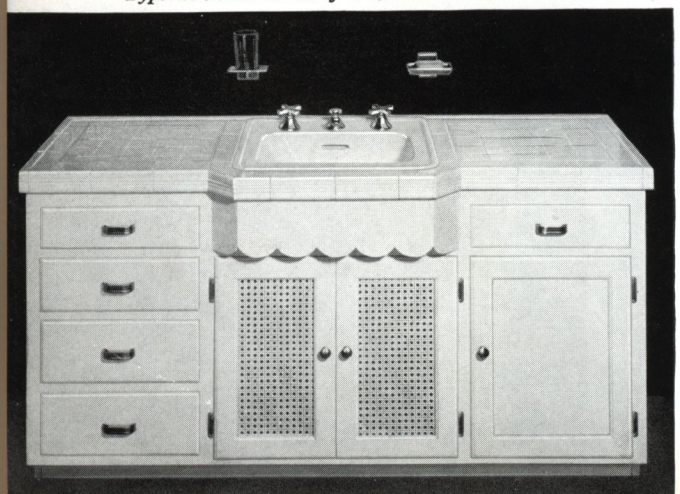


C 279 Showing cabinet interior

C 290



Typical installation of C 290-WM11 Westland lavatory.



WESTLAND—C 290-(*)

LAVATORY: *Westland* china lavatory; rectangular basin, splash lip, raised tiling ledge.

NOTE: Available for WM, W, P, V or L trimmings. *Designate by suffix number, trimmings desired.

Size: 20 x 19″, basin 16 x 11″.

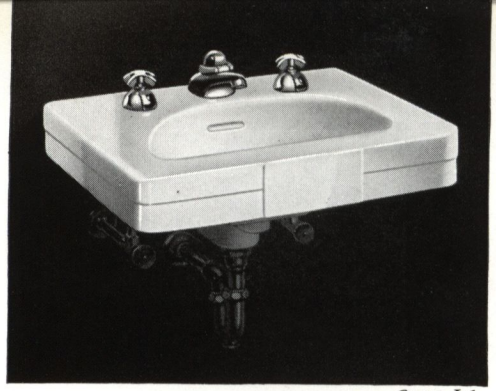
WESTLAND TILED-IN LAVATORY

The *Westland* offers limitless possibilities for unusual architectural treatment in planning the bathroom or powder room, particularly where tile or similar materials are to be used.

When planning a bathroom with *Westland* lavatory it may be highly desirable to build in the bathtub with the same materials as used for the lavatory. The Crane *Tarnia* bath is ideal for this purpose.

Trimmings . . . . . Pages 9-2 and 10-1

CRANE VITREOUS CHINA LAVATORIES



C 303-L1

Crane Cast Iron Chair and Wall Carriers shown on Page 93-1.

DIANA—C 303-L1

A fine modern lavatory completely supported by chair carrier.

LAVATORY: *Diana* china lavatory; semi-oval basin, splash lip.

SUPPORT: C 33-658 built-in chair carrier with concealed brackets.

TRIMMINGS: L1 *Criterion*, comb. supply and lever action *Securo* waste fixture.

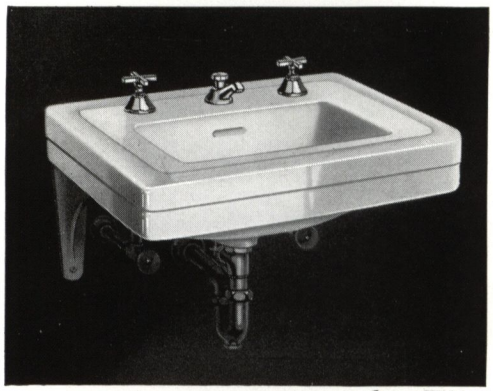
SUPPLIES: C 32-547, 3/8" angle stop supplies with reducers.

TRAP: C 33-900, 1¼" cast brass "P" trap.

Sizes: 24 x 20" and 27 x 21".

Basin: 18 x 11½", 21 x 12½".

NOTE: Available with any L or K trimmings. Also E trim for 24" size.



C 398-WM11

NORWICH—C 398-WM11

A practical lavatory on wall brackets.

LAVATORY: *Norwich* china lavatory; rectangular basin, splash lip. (Soap depression on 20 and 24" sizes.)

SUPPORT: C 33-714 porcelain enameled wall brackets.

TRIMMINGS: WM11 *Rival*, comb. supply and pop-up waste fixture.

SUPPLIES: C 32-547, 3/8" angle stop supplies with reducers.

TRAP: C 33-900, 1¼" cast brass "P" trap.

Sizes: 20 x 18", 24 x 21", 27 x 22" and 30 x 24".

Basin: 14 x 11", 16 x 11", 17 x 12", 18½ x 13".

NOTE: Available with any WM, W or P trimmings. Also V or R trim for 20" and 24" sizes, E trim for 24" size, and L or K trim for 24", 27" and 30" sizes.

NORWICH—C 417-L13

A lavatory on built-in wall carriers, ideal for walls of hollow tile construction.

Same as C 398 above except:

SUPPORT: C 33-654 built-in wall carrier with concealed brackets.

TRIMMINGS: L13 *Rival*, comb. supply and lever action *Securo* waste fixture.

Size: 24 x 21", basin 16 x 11".

NOTE: Available with any L, WM, W or P trimmings. Also 20 x 18" size lavatory available with WM, W, or P trim.

C 417-L13



NORWICH—C 428-WM11

An ideal lavatory for places where liquid soap is used.
(Features shown on Page 8-1.)

LAVATORY: *Norwich* china lavatory; rectangular basin, splash lip, integral liquid soap chamber.

SUPPORT: C 33-714 porcelain enameled wall brackets.

TRIMMINGS: WM11 *Rival*, comb. supply and pop-up waste fixture; Special self-closing push-button liquid soap dispenser.

SUPPLIES: C 32-547, 3/8" angle stop supplies with reducers.

TRAP: C 33-900, 1¼" cast brass "P" trap.

Size: 20 x 18", basin 14 x 11".

NOTE: Available with any suffix letter WM, W, P or R trimmings.

C 428-WM11



Exposed metal, chromiun plated. *Trimmings . . . . . Pages 9-2 and 10-1*

CRANE VITREOUS CHINA LAVATORIES

NORWICH—C 506-V12

A practical lavatory for personnel or public toilet rooms. The compact Rainier fixture permits more surface area.

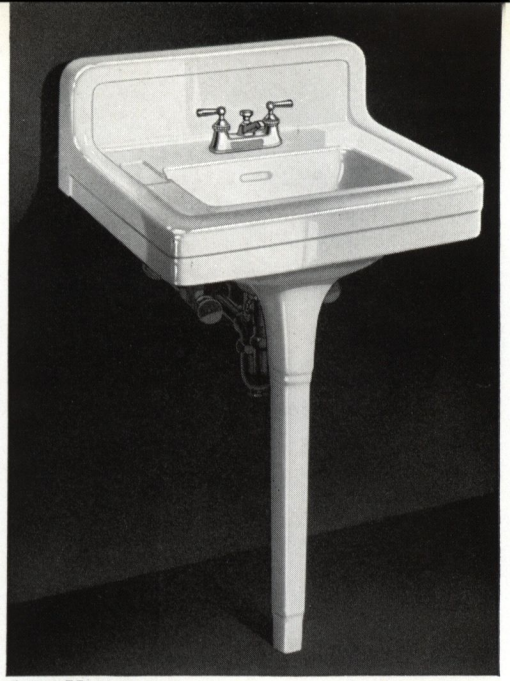
LAVATORY: *Norwich* china lavatory on leg; 6″ back, rectangular basin, splash lip, soap depression; concealed hanger.

TRIMMINGS: V12 *Rainier*, unit supply and pop-up waste fixture.

SUPPLIES: C 32-547, ⅜″ angle stop supplies; C 32-541 offset reducers.

TRAP: C 33-900, 1¼″ cast brass "P" trap.
Exposed metal chromium plated.
Sizes: 20 x 18″ and 24 x 21″.
Basin: 14 x 11″, 16 x 11″.

NOTE: Available with any suffix letter R, V, WM, W or P trimmings. Also L or K trim for 24″ size.



C 506-V12

STERLING—C 589-E2

An attractive raised shelf lavatory with extra large wash basin. The new compact Criterion fixture provides greater open shelf area.

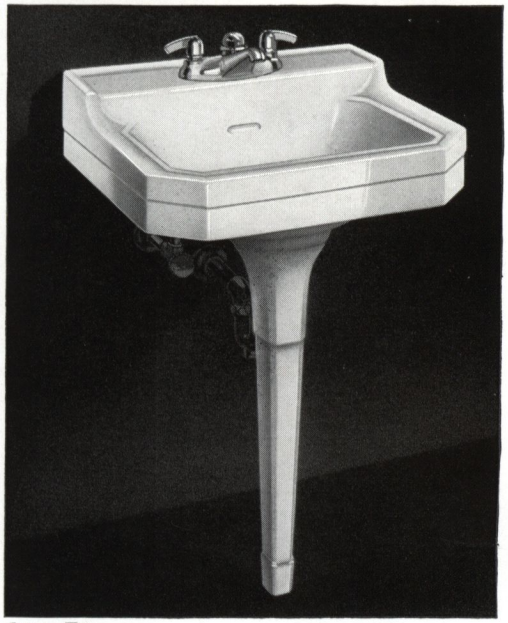
LAVATORY: *Sterling* china lavatory on leg; 2″ high shelf back, rectangular basin, splash lip; enameled wall brackets.

TRIMMINGS: E2 *Criterion*, unit supply and lever action *Securo* waste fixture.

SUPPLIES: C 32-547, ⅜″ angle stop supplies; C 32-541 offset reducers.

TRAP: C 33-900, 1¼″ cast brass "P" trap.
Exposed metal chromium plated.
Sizes: 20 x 18″ and 24 x 21″.
Basin: 15½ x 10¼″, 19½ x 13¼″.

NOTE: Available with any suffix letter E or V trimmings.



C 589-E2

C 597-L13



NORWICH—C 597-L13

A fine lavatory on single leg support. The neat appearing Rival fixture has the exclusive Securo quick-draining waste.

LAVATORY: *Norwich* china lavatory on leg; rectangular basin, splash lip; enameled wall brackets. (Soap depression on 24″ size.)

TRIMMINGS: L13 *Rival*, comb. supply and lever action *Securo* waste fixture.

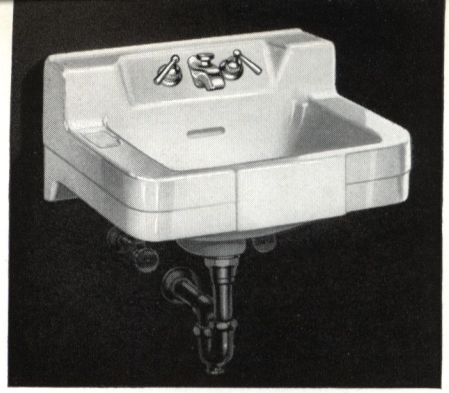
SUPPLIES: C 32-547, ⅜″ angle stop supplies with reducers.

TRAP: C 33-900, 1¼″ cast brass "P" trap.
Exposed metal chromium plated.
Sizes: 24 x 21″, 27 x 22″ and 30 x 24″.
Basin: 16 x 11″, 17 x 12″, 18½ x 13″.

NOTE: Available with any suffix letter L, K, WM, W or P trimmings. Also E, V or R trim for 24″ size only. Also 20 x 18″ size lavatory available with WM, W, P, V or R trim.

Trimmings . . . . . Pages 9-2 and 10-1

CRANE VITREOUS CHINA LAVATORIES



C 610

OXFORD—C 610

A modern, compact lavatory—ideal where space is limited.

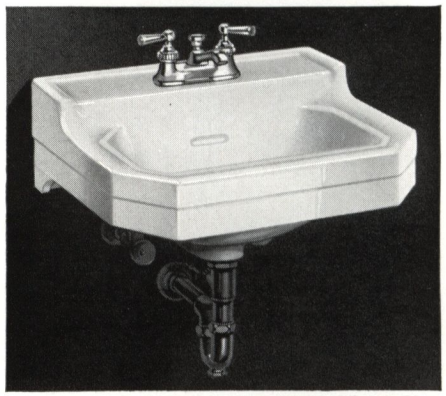
LAVATORY: *Oxford* china lavatory; 3½″ high shelf back, sloping fixture panel, rectangular basin, splash lip, soap depression; concealed hanger.

TRIMMINGS: C 32-166 comb. supply and direct lift waste fixture, with *Newsleeve* units.

SUPPLIES: C 32-547, ⅜″ angle stop supplies; C 32-541 offset reducers.

TRAP: C 33-900, 1¼″ cast brass "P" trap.

Size: 19 x 17″, basin 14 x 11″.



C 630-V12

STERLING—C 630-V12

A fine lavatory with extra large wash basin area.

LAVATORY: *Sterling* china lavatory; shelf back, rectangular basin, splash lip; concealed hangers.

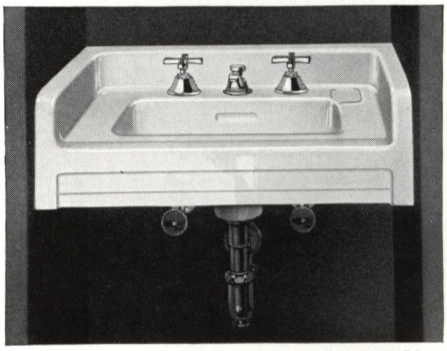
TRIMMINGS: V12 *Rainier*, unit supply and pop-up waste fixture.

SUPPLIES: C 32-547, ⅜″ angle stop supplies; C 32-541 offset reducers.

TRAP: C 33-900, 1¼″ cast brass "P" trap.

Size: 20 x 18″, basin 15½ x 10¼″.

NOTE: Available with any suffix letters E or V trimmings.



C 636-WM11

CORWITH—C 636-WM11

A small recess lavatory, versatile in its application.

LAVATORY: *Corwith* china recess lavatory; 2½″ back and ends, rectangular basin, splash lip, soap depression; enameled brackets.

TRIMMINGS: WM11 *Rival*, comb. supply and pop-up waste fixture.

SUPPLIES: C 32-547, ⅜″ angle stop supplies with reducers.

TRAP: C 33-900, 1¼″ cast brass "P" trap.

Size: 23½ x 17½″, basin 14¾ x 9¾″.

NOTE: Available with any WM, W or P trimmings.

CROMWELL—C 640

Ideal for the small bathroom or powder room.

LAVATORY: *Cromwell* china lavatory; 5¼″ back, raised integral spout, sloping valve panels, rectangular basin, splash lip, soap depression; concealed hangers.

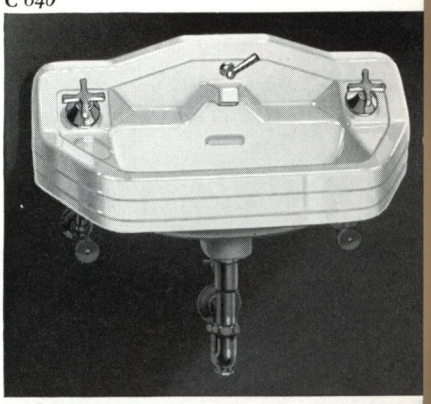
TRIMMINGS: *Rival*, C 32-374-B supply valves; C 32-381 pop-up waste thru back.

SUPPLIES: C 32-531, ⅜″ angle stop supplies to wall.

TRAP: C 33-900, 1¼″ cast brass "P" trap.

Size: 26 x 14″, basin 16 x 9¾″.

C 640



RUSSELL—C 645-E2

An integral trap lavatory providing unusual hygienic advantages.

LAVATORY: *Russell* china integral trap lavatory; 2″ high shelf back, rectangular basin, splash lip; 1½″ female outlet connection; concealed hanger.

TRIMMINGS: E2 *Criterion*, unit supply and lever action *Securo* waste fixture.

SUPPLIES: C 32-547, ⅜″ angle stop supplies; C 32-541 offset reducers.

Sizes: 20 x 18″ and 24 x 21″.
Basin: 15½ x 10¼″, 19½ x 13¼″.

C 645-E2



Exposed metal, chromium plated.

Trimmings . . . . . Pages 9-2 and 10-1

CRANE VITREOUS CHINA LAVATORIES



C 650-X5

HERMITAGE—C 650-X5

Ideal for rooms where available space is limited.

LAVATORY: *Hermitage* china lavatory; 4½″ back, splash lip; concealed hanger.

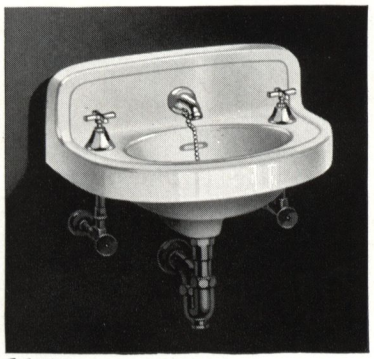
TRIMMINGS: X5; *Telsa Jr.* faucets and *Rival* pop-up waste thru back

SUPPLIES: C 32-547, ⅜″ angle stop supplies with reducers.

TRAP: C 33-900, 1¼″ cast brass "P" trap.

Sizes: 26 x 13½″ (illustrated), 20 x 13½″ (front like C 654).
Basin: 16½ x 9½″, 12½ x 9½″

NOTE: Available with any X or P trimmings.



C 654

HERMITAGE—C 654

Same as C 650 above except:

TRIMMINGS: C 32-389, metal spout supply fixture, with chain, rubber stopper; C 33-800-B waste plug.

Sizes: 20 x 13½″, (illustrated), 26 x 13½″ (front like C 650).



C 682-V12

IPSWICH—C 682-V12

Excellent for installations where corner type is desirable.

LAVATORY: *Ipswich* china corner lavatory; 6″ back, splash lip; enameled wall brackets.

TRIMMINGS: V12 *Rainier*, unit supply and pop-up waste fixture.

SUPPLIES: C 32-547, ⅜″ angle stop supplies; C 32-541 offset reducers.

TRAP: C 33-900, 1¼″ cast brass "P" trap.

Size: 17 x 17″, basin 15 x 11″.

NOTE: Available with any WM, W, P, R or V trimmings.

C 696-V12



CORWITH—C 696-V12

A small, neat lavatory for corner installation

LAVATORY: *Corwith* china corner lavatory; 2½″ back, splash lip, soap depression; enameled wall brackets.

TRIMMINGS: V12 *Rainier*, unit supply and pop-up waste fixture.

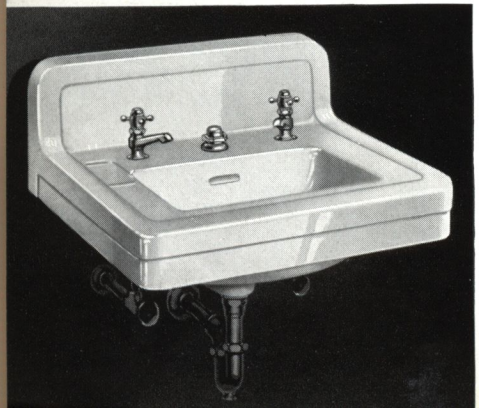
SUPPLIES: C 32-547, ⅜″ angle stop supplies; C 32-541 offset reducers.

TRAP: C 33-900, 1¼″ cast brass "P" trap.

Size: 12¼ x 12¼″, basin 14¾ x 9¾″.

NOTE: Available with any W, P or V trimmings.

C 754-R9



NORWICH—C 754-R9

LAVATORY: *Norwich* china lavatory, 6″ back, rectangular basin, splash lip, soap depression; concealed hanger.

TRIMMINGS: R9, *Triumph* self-closing faucets; lever action *Securo* waste.

SUPPLIES: C 32-547, ⅜″ angle stop supplies with reducers.

TRAP: C 33-900, 1¼″ cast brass "P" trap.

Sizes: 20 x 18″ and 24 x 21″.

Basin: 14 x 11″, 16 x 11″.

NOTE: Available with any R, WM, W, P or V trimmings. Also L or E trim for 24″ size. For 18″ size, see C 754-V12 on page 8-1.

Exposed metal, chromium plated.

Trimmings . . . . . Pages 9-2 and 10-1

CRANE VITREOUS CHINA LAVATORIES



C754-V12

NORWICH—C 754-V12

LAVATORY: *Norwich* china lavatory; 6″ back, rectangular basin, splash lip, soap depression; concealed hanger.

TRIMMINGS: V12 *Rainier*, unit supply and pop-up waste fixture.

SUPPLIES: C 32-547, ⅜″ angle stop supplies; C 32-541 offset reducers.

TRAP: C 33-900, 1¼″ cast brass "P" trap.

Sizes: 18 x 15″, 20 x 18″ and 24 x 21″.
Basin: 14 x 9″, 14 x 11″, 16 x 11″.

NOTE: Available with any WM, W, P or V trimmings. Also R trim for 20 and 24″ sizes, and L or E trim for 24″ size.



C765-WM11

NORWICH—C 765-WM11

LAVATORY: *Norwich* china lavatory; 6″ back, rectangular basin, splash lip, integral liquid soap chamber; concealed hanger.

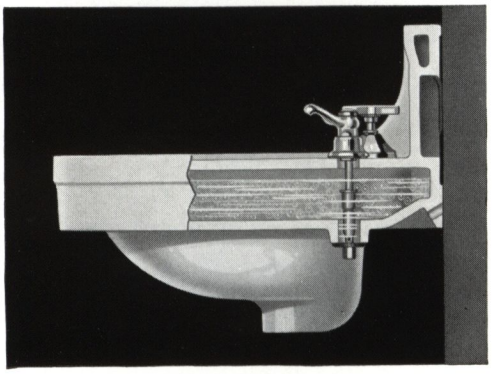
TRIMMINGS: WM11 *Rival*, comb. supply and pop-up waste fixture; special self-closing push-button liquid soap dispenser.

SUPPLIES: C 32-547, ⅜″ angle stop supplies with reducers.

TRAP: C 33-900, 1¼″ cast brass "P" trap.

Size: 20 x 18″, basin 14 x 11″.

NOTE: Available with any WM, W, P or R trimmings.



Section through the liquid soap chamber.

FEATURES

The large integral liquid soap chamber holds ten pints—requires less frequent filling.

Soap chamber is easily filled by removing knurled cap from top of soap valve thru which the liquid soap is poured.

Where low temperatures warrant draining the water supply system, the liquid soap must also be drained from chamber.

The integral liquid soap chamber is a patented Crane feature.

C 800-W5



CHELSEA—C 800-W5

LAVATORY: *Chelsea* china lavatory; 6″ back, splash lip, soap depression; concealed hanger.

TRIMMINGS: W5; *Telsa Jr.* faucets and *Rival* pop-up waste.

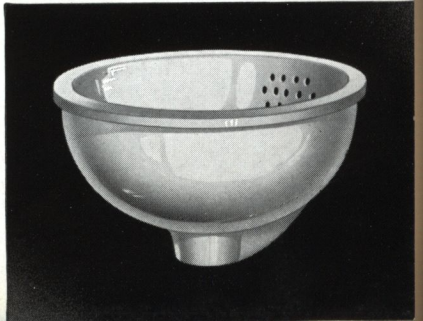
SUPPLIES: C 32-547, ⅜″ angle stop supplies with reducers.

TRAP: C 33-900, 1¼″ cast brass "P" trap.

Size: 20 x 18″, basin 14 x 11″.

NOTE: Available with any WM, W, P or R trimmings.

C940



C 940

Vitreous china patent overflow basin for metal plug waste.

Sizes: Round, 14″—Oval, 14 x 17″ and 15 x 19″.

Exposed metal, chromium plated.

Trimmings . . . . . Pages 9-2 and 10-1

CRANE VITREOUS CHINA LAVATORIES

PRISON LAVORATORIES

Ideal for psychopathic and penal institutions where malicious tampering is to be expected.



C 1101

PARVUS—C 1101

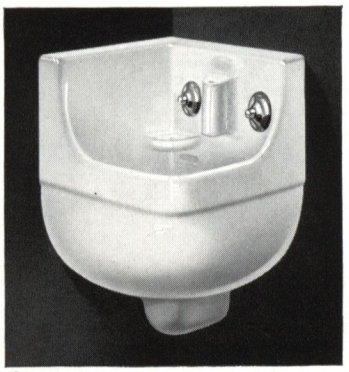
LAVATORY: *Parvus* china prison lavatory; 5″ back, combination integral spout and drinking nozzle, slow draining integral strainer, integral soap dish; concealed 1½″ closet spud outlet; concealed supporting bolt.

TRIMMINGS: C 32-050, ⅜″ vandal proof, self-closing, push-button supply valves.

Size: 14½ x 13″, basin 12½ x 9⅞″.

PARVUS—C 1103

Same as C 1101 except with COLD water supply only.



C 1105

PARVUS—C 1105

Same as C 1101 except CORNER TYPE lavatory.
Size: 14 x 14″, basin 10⅞ x 10⅞″.

PARVUS—C 1107

Same as C 1105 except with COLD water supply only.



C 1118

FOLSOM—C 1118

LAVATORY: *Folsom* china prison lavatory; 6″ back, slow draining integral strainer; concealed 1½″ closet spud outlet; 2 supporting bolts at outlet.

TRIMMINGS: C 1118, ⅜″ vandal-proof, self-closing, push-button supply valves; metal spout.

Size: 20 x 15″, basin 16 x 11″.

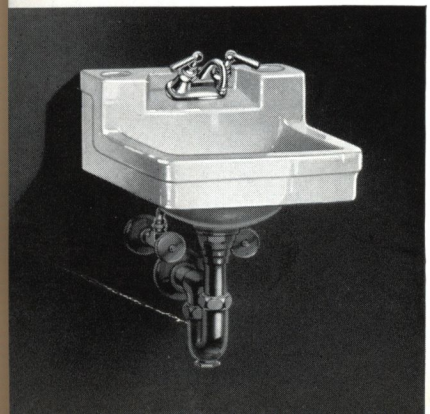
FOLSOM—C1119

Same as C 1118 except with COLD water supply only.

C 1212



C 1221



DENTAL LAVATORIES

A highly desirable sanitary convenience—
It relieves congestion in the bathroom

CORWITH—C 1212

LAVATORY: *Corwith* china flushing rim dental lavatory; 6″ shelf top back, rectangular basin, integral spout and strainer, integral trap, 1½″ female outlet connection; concealed hanger.

TRIMMINGS: C 32-296, integral spout and flushing rim supply fixture with ⅜″ angle stop supplies to wall.

Size: 16 x 15″. basin 11 x 8½″.

DENTRIX—C 1221

LAVATORY: *Dentrix* china dental lavatory; 3″ boxed back with tumbler depressions, sloping fixture panel, rectangular basin, integral strainer; concealed hanger.

TRIMMINGS: C 32-297, gooseneck spout supply fixture; 1¼″ waste.

SUPPLIES: C 32-547, ⅜″ angle stop supplies; C 32-541 offset reducers.

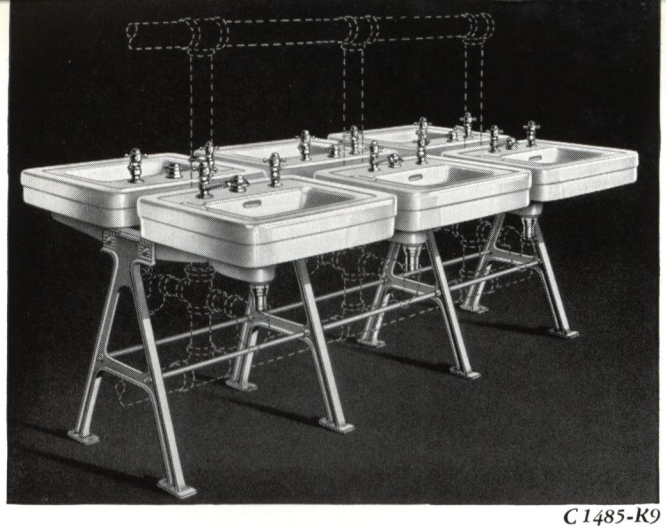
TRAP: C 33-900, 1¼″ cast brass "P" trap.

Size: 12 x 12″, basin 9¾ x 8″.

Exposed metal, chromium plated.

Enameled Prison Lavatories . . . . . Page 13-1

CRANE VITREOUS CHINA LAVATORIES



C 1485-R9

LAVATORIES IN BATTERIES

NORWICH—C 1485-R9

LAVATORIES *Norwich* china lavatories; rectangular basin, splash lip, soap depression.

SUPPORT: Painted cast iron double battery supporting frame assembly.

TRIMMINGS: R9; *Triumph* self-closing faucets and lever action *Securo* wastes.

Lavatory size: 24 x 21″, basin 16 x 11″.

Space: 3½″ between sides, 4″ between backs.

NOTE: *Available with single battery support like C 1500. Available with anv WM, W, P, V, R, L or E trimmings.



C 1500-P9

MONROE—C 1500-P9

LAVATORIES: *Monroe* china lavatories; soap depression.

SUPPORT: Painted cast iron single battery supporting frame assembly.

TRIMMINGS: P9; *Triumph* self-closing faucets with chain and stopper wastes.

Lavatory size: 18 x 17″, basin 14 x 11″.
Space between sides, 4″.

NOTE: *Available with double battery support like C 1485. Available with any WM, W, P or R trimmings.

**Single and double batteries available in as many sections as specified.*

C 1804



MANICURE TABLE

IPSWICH—C 1804

TABLE: *Ipswich* china manicure table on leg; round basin, splash rim; enameled brackets.

TRIMMINGS: C 32-291, gooseneck spout supply fixture; C 1804 lever operated pop-up waste.

SUPPLIES: C 32-548, ⅜″ angle stop supplies with reducers.

TRAP: C 33-900, 1¼″ cast brass "P" trap.

Size: 32 x 18″, basin 7¾″ dia.

C 1846



BARBER LAVATORY

NORWICH—C 1846

LAVATORY: *Norwich* china pedestal barber lavatory; large rectangular basin; enameled brackets.

TRIMMINGS: C 33-070 *Agilis* supply fixture, with transfer valve, hose and spray; C 33-812, 1¼″ cross bar open strainer.

SUPPLIES: C 32-547, ⅜″ angle stop supplies; C 32-541 offset reducers.

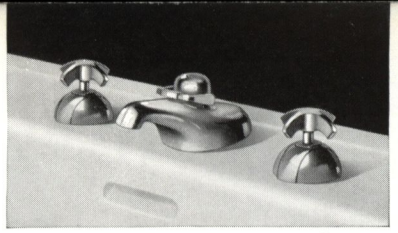
TRAP: C 33-900, 1¼″ cast brass "P" trap.

Size: 24 x 27″, basin 18½ x 17″.

CRANE LAVATORY TRIMMINGS

A note below specifications for each lavatory illustrated tells which trimmings from this page are available.

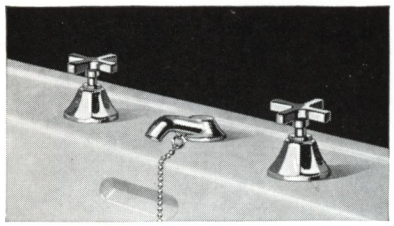
To specify a lavatory with trimmings other than illustrated, merely change SUFFIX DESIGNATION.



L1

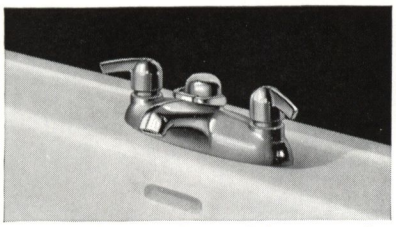
C 32-070 *Criterion*, combination supply and lever action *Securo* waste fixture.

TWO WATER



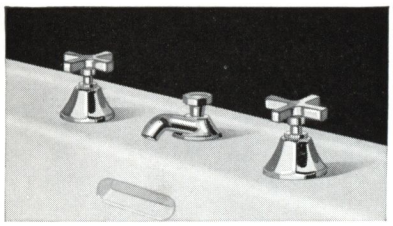
WM9

C 32-285 *Rival*, supply fixture with chain and stopper; C 33-800-B cast waste plug.



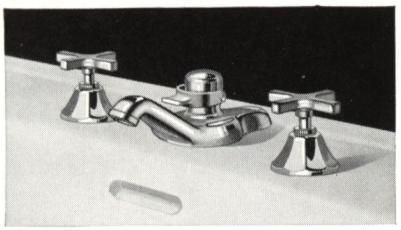
E2

*C 32-180 *Criterion*, unit supply and lever action *Securo* waste fixture. (*C 32-185 for *Sterling* lavatories, C 32-186 for *Russell* lavatories.)



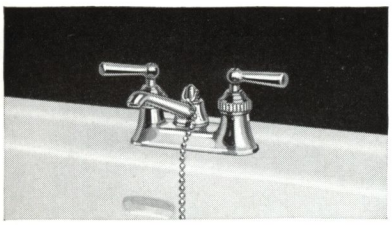
WM11

C 32-283 *Rival*, combination supply and indirect lift pop-up waste fixture.



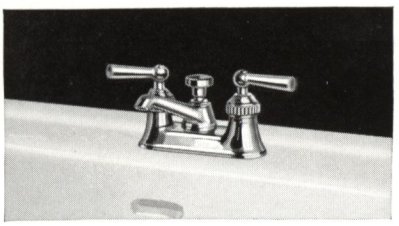
L13

C 32-118 *Rival*, combination supply and lever action *Securo* waste fixture.



V14

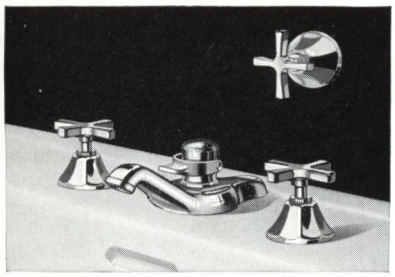
C 32-390 *Rainier*, supply fixture with chain and stopper; C 33-800-B, cast waste plug.



V12

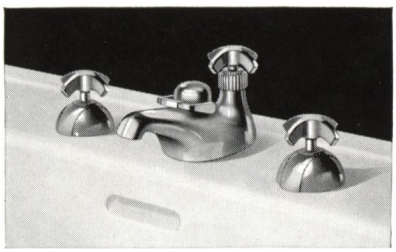
C 32-282 *Rainier*, unit supply and indirect lift pop-up waste fixture.

THREE WATER



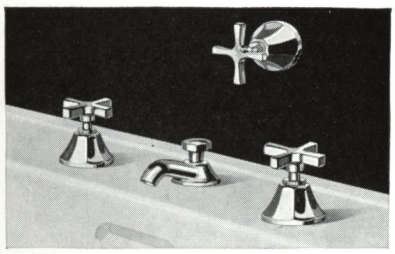
L6

C 32-118 *Rival*, comb. supply and lever action *Securo* waste fixture; C 32-339 third water supply.



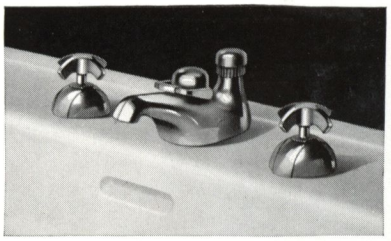
K1

C 32-082 *Criterion*, combination supply and lever action *Securo* waste fixture with integral third water valve.



WM6

C 32-283 *Rival*, comb. supply and indirect lift pop-up waste fixture; C 32-338 third water supply.



K3

C 32-080 *Criterion*, combination supply and lever action *Securo* waste fixture with integral push-button ice water valve.

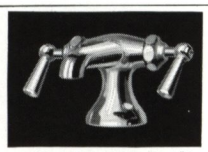
CRANE LAVATORY TRIMMINGS

A note below specifications for each lavatory illustrated tells which trimmings from this page are available.

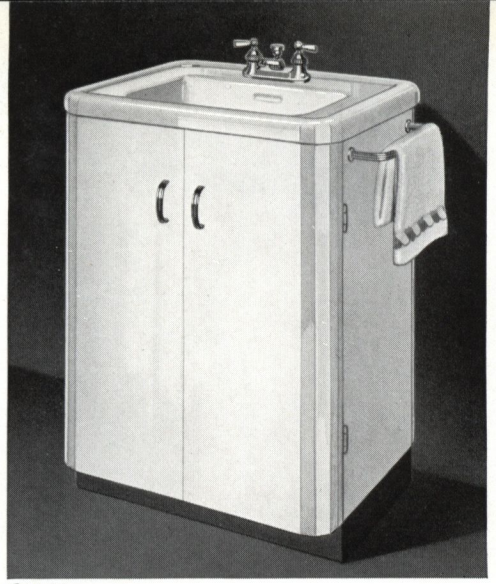
To specify a lavatory with trimmings other than illustrated, merely change SUFFIX DESIGNATION.



C 33-752
For china lavs.

WASTE DESIGNATED BY SUFFIX LETTER → / FAUCETS DESIGNATED BY SUFFIX NUMBER ↓	R  C 32-355 *Criterion* lever action *Securo* waste.	W  C 32-380 *Rival* indirect lift pop-up waste.	X  C 32-381 *Rival* indirect lift pop-up waste.	P  C 33-752-B *For enamel lavs.* Chainstay, chain and stopper, with cast or wrought waste plug.
 1  C 25-270-M Metal soap dish. C 31-906 *Agilis* double faucet.	R1	W1	X1	P1
 3  C 31-938 *Rival* faucet. C 31-906 *Agilis* double faucet.	R3	W3	X3	P3
 4  C 31-806 *Telsa* faucets.	R4	W4	X4	P4
 5  C 31-843 *Telsa Jr.* faucets.	R5	W5	X5	P5
 9  C 31-970 *Triumph* self-closing faucets.	R9	W9	X9	P9
 10  C 31-955 *Metro* slow-closing, self-closing faucets.	R10	W10	X10	P10
 18  C 31-938 *Rival* faucets.	R18	W18	X18	P18

CRANE PORCELAIN ENAMELED LAVATORIES



C 1991

CORONADA-LAVINET—C 1991

LAVATORY: *Coronada-Lavinet* lavatory, enamel on cast iron; rectangular basin.

TRIMMINGS: V12 *Rainier*, unit supply and pop-up waste fixture

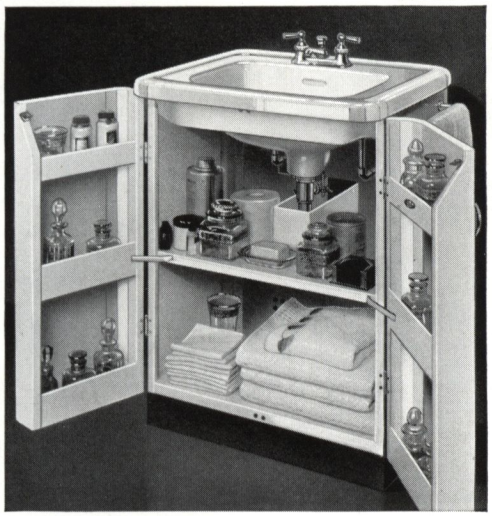
SUPPLIES: ⅜″ angle supplies to wall.

TRAP: 1¼″ trap to wall.

CABINET: *Coronada-Lavinet* baked enamel steel cabinet; three shelf compartments in each door; one cabinet shelf; C 33-669 towel bars

Size: 24 x 20″, basin 16 x 11″.

Open view to the right shows the spacious interior of the *Coronada-Lavinet* cabinet. Side hinged doors give full access to all shelves and the unique shelf-in-door feature provides a handy place to store toilet articles.



C 1991

C 1993



Open view to the left shows the roomy interior of the *Neuday* cabinet—the unique door storage compartments—the doors hinged at side for greater access to all shelves.

C 1993



NEUDAY—C 1993

LAVATORY: *Neuday* lavatory, enamel on cast iron; 3″ high shelf back, sloping fixture panel, rectangular basin; concealed hanger. (Soap depression on 24″ size.)

TRIMMINGS: C 32-165 comb. supply and direct lift waste fixture, with *Newsleeve* units.

SUPPLIES: ⅜″ angle supplies to wall.

TRAP: 1¼″ trap to wall

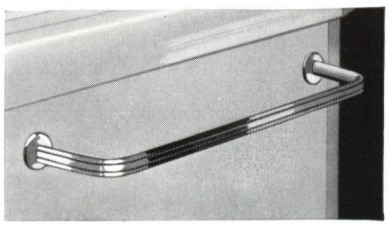
CABINET: *Neuday* baked enamel steel cabinet; three shelf compartments in each door; one cabinet shelf; C 33-669 towel bars.

Sizes: 19 x 17″ and 24 x 18″.

Basin: 15½ x 10½″, 16 x 11″.

C 33-669

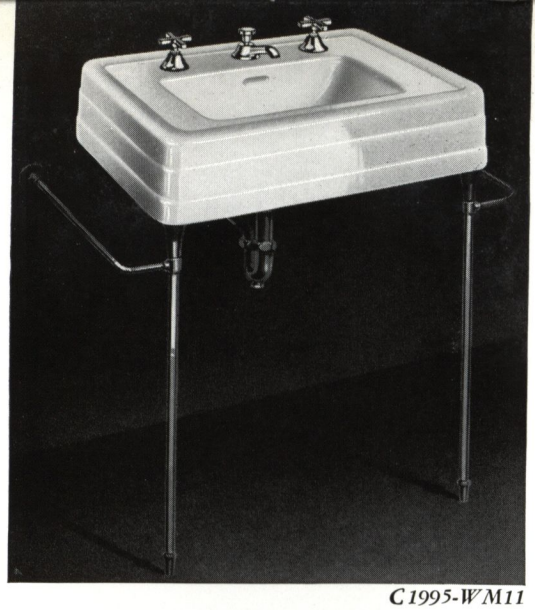
Chromium plated towel bar for cabinet lavatories. (Cabinets are regularly furnished with holes drilled in both sides to accommodate towel bars.)



C 33-669

Exposed metal chromium plated

CRANE PORCELAIN ENAMELED LAVATORIES



C 1995-WM11

CORWITH—C 1995-WM11

LAVATORY: *Corwith* lavatory, enamel on cast iron; rectangular basin.

SUPPORT: C 33-675 *Rival* metal legs; C 33-666 towel bars; C 33-712 wall brackets. (Available less towel bars.)

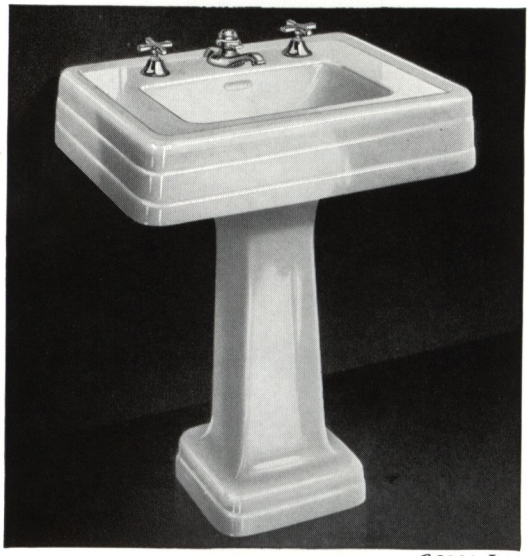
TRIMMINGS: WM11, *Rival* comb. supply and pop-up waste fixture.

SUPPLIES: 3/8" angle supplies to wall

TRAP: 1¼" trap to wall.

Sizes: 24 x 20", and 27 x 22".
Basin: 16 x 11", 17 x 12".

NOTE: Available with any WM, W, V, L or E trimmings. Also P trim for 24" size.



C 2000-L13

CORWITH—C 2000-L13

LAVATORY: *Corwith* pedestal lavatory, enamel on cast iron; rectangular basin.

TRIMMINGS: L13 *Rival*, comb. supply and lever action *Securo* waste fixture

SUPPLIES: 3/8" angle supplies to wall.

TRAP: 1¼" trap to wall.

Sizes: 24 x 20", and 27 x 22".
Basin: 16 x 11", 17 x 12".

NOTE: Available with any WM, W, V, L or E trimmings. Also P trim for 24" size.

CORONA—C 2050-WM11

LAVATORY: *Corona* lavatory, enamel on cast iron; rectangular basin; porcelain enameled wall brackets.

TRIMMINGS: WM11 *Rival*, comb. supply and pop-up waste fixture.

SUPPLIES: 3/8" angle supplies to wall.

TRAP: 1¼" trap to wall.

Sizes: 24 x 20", and 27 x 22".
Basin: 16 x 11", 17 x 12".

NOTE: Available with any WM, W or V trimmings. Also P trim for 24" size.

NEUDAY—C 2095

LAVATORY: *Neuday* lavatory, enamel on cast iron; 3" high shelf back, sloping fixture panel, rectangular basin; concealed hanger. (Soap depression on 24" size only.)

SUPPORT: C 33-674 *Rival* metal legs; C 33-665 towel bars; concealed hanger. (Available less towel bars.)

TRIMMINGS: C 32-165 comb. supply and direct lift waste fixture, with *Newsleeve* units.

SUPPLIES: 3/8" angle supplies to wall.

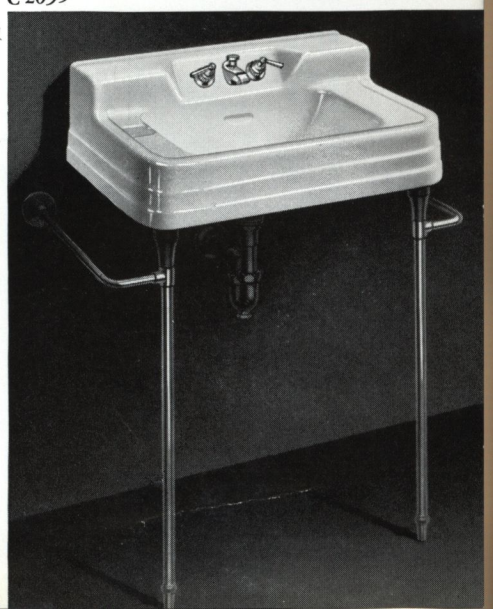
TRAP: 1¼" trap to wall.

Sizes: 19 x 17", and 24 x 18".
Basin: 15½ x 10½", 16 x 11".

C 2050-WM11



C 2095



Exposed metal chromium plated.

Trimmings . . . . . Pages 9-2 and 10-1

CRANE PORCELAIN ENAMELED LAVATORIES

NEUDAY—C 2100

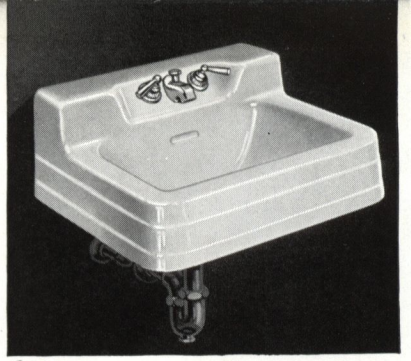
LAVATORY: *Neuday* lavatory, enamel on cast iron; 3″ high shelf back, sloping fixture panel, rectangular basin; concealed hanger. (Soap depression on 24″ size.)

TRIMMINGS: C 32-165 comb. supply and direct lift waste fixture, with *Newsleeve* units.

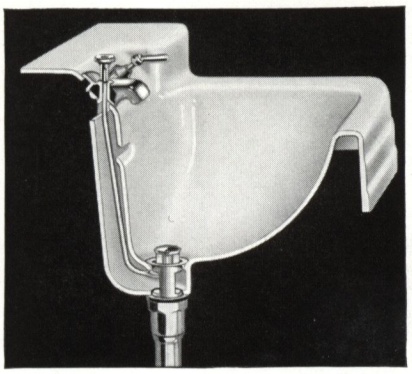
SUPPLIES: ⅜″ angle supplies to wall.

TRAP: 1¼″ trap to wall.

Sizes: 19 x 17″ and 24 x 18″.
Basin: 15½ x 10½″, 16 x 11″.



C 2100



The waste shown to the right is a feature available only with Crane *Neuday* and *Oxford* lavatories. It is a direct lift type, positive in action and operates inside a large, sanitary overflow. It differs from the ordinary waste in that all of the operating mechanism is concealed. Stopper can be easily removed for cleaning.

C 2149-V12



RHODILE—C 2149-V12

LAVATORY: *Rhodile* lavatory, enamel on cast iron; 6″ back, rectangular basin, concealed hanger; C 33-695 center leg.

TRIMMINGS: V12 *Rainier*, unit supply and pop-up waste fixture.

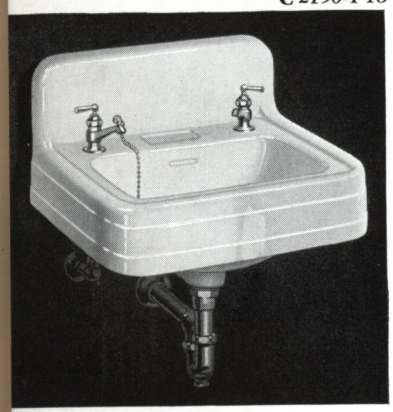
SUPPLIES: ⅜″ angle supplies to wall.

TRAP: 1¼″ trap to wall.

Size: 20″ x 18, basin 15½ x 10″.

NOTE: Available with any WM, W, P or V trimmings. Available with 2 metal legs like C 2095 *Neuday*.

C 2150-P18



RHODILE—C 2150-P18

LAVATORY: *Rhodile* lavatory, enamel on cast iron; 6″ back, rectangular basin; concealed hanger.

TRIMMINGS: P18; *Rival* faucets with chain and stopper waste.

SUPPLIES: ⅜″ angle supplies to wall.

TRAP: 1¼″ trap to wall.

Size: 20 x 18″, basin 15½ x 10″.

NOTE: Available with any WM, W, P or V trimmings.

C 2170-W5



COLORADO—C 2170-W5

LAVATORY: *Colorado* lavatory, enamel on cast iron, with back; concealed hanger.

TRIMMINGS: W5; *Telsa Jr.* faucets and *Rival* pop-up waste.

SUPPLIES: ⅜″ angle supplies to wall.

TRAP: 1¼″ trap to wall.

Sizes: 21 x 17″ (6″ back) and 24 x 18″ (10″ back).
Basin: 15 x 10½″, 16 x 10½″.

NOTE: Available with any WM, W, P or V trimmings. Also R trim for 24″ size.

COLORADO—C 2163-W5

Same as above with C 33-695 center leg.

CRANE PORCELAIN ENAMELED LAVATORIES



C 2210-W5

NEVADA—C 2210-W5

LAVATORY: *Nevada* lavatory, enamel on cast iron; 12″ back, concealed hanger; C 33-695 center leg.
TRIMMINGS: W5; *Telsa Jr.* faucets and *Rival* pop-up waste.
SUPPLIES: ⅜″ angle supplies to wall.
TRAP: 1¼″ trap to wall.
Size: 24 x 20″, basin 16 x 12″.
NOTE: Available with any WM, W, P or R trimmings.

NEVADA—C 2200-P18

Same as above without leg.

NORFOLK—C 2240-P18

LAVATORY: *Norfolk* lavatory, enameled on cast iron; 8″ back; concealed hanger.
TRIMMINGS: P18; *Rival* faucets with chain and stopper waste.
SUPPLIES: ⅜″ angle supplies to wall.
TRAP: 1¼″ trap to wall.
Size: 21 x 18″, basin 16½ x 10½″.
NOTE: Available with any WM, W, P, V or R trimmings.

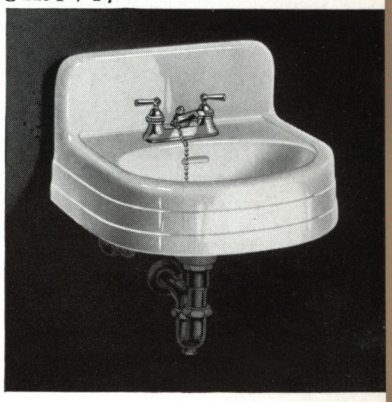
C 2240-P18



NORFOLK—C 2250-P18

Same as above with C 33-695 center leg.

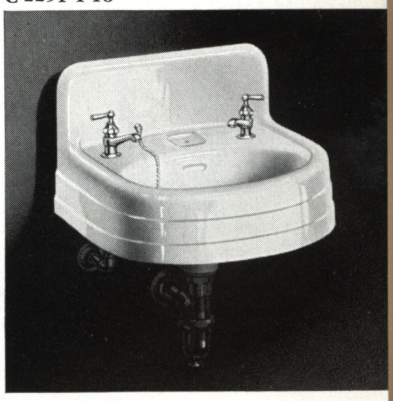
C 2251-V14



CAROLINA—C 2251-V14

LAVATORY: *Carolina* lavatory, enamel on cast iron; 6″ back; concealed hanger.
TRIMMINGS: V14 *Rainier*, unit supply and waste, with chain and stopper.
SUPPLIES: ⅜″ angle supplies to wall.
TRAP: 1¼″ trap to wall.
Size: 19 x 17″, basin 14½ x 10½″.
NOTE: Available with any WM, W, P or V trimmings.

C 2251-P18



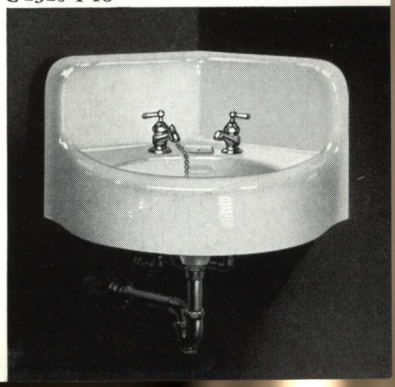
CAROLINA—C 2251-P18

LAVATORY: *Carolina* lavatory, enamel on cast iron; 6″ back; concealed hanger.
TRIMMINGS: P18; *Rival* faucets with chain and stopper waste.
SUPPLIES: ⅜″ angle supplies to wall.
TRAP: 1¼″ trap to wall.
Size: 19 x 17″, basin 14½ x 10½″.
NOTE: Available with any WM, W, P or V trimmings.

KENT—C 2320-P18

LAVATORY: *Kent* corner lavatory, enamel on cast iron, with back; concealed hangers.
TRIMMINGS: P18; *Rival* faucets with chain and stopper waste.
SUPPLIES: ⅜″ angle supplies to wall.
TRAP: 1¼″ trap to wall.
Sizes: 16½ x 16½″ (5½″ back), and 19 x 19″ (7½″ back).
Basins: 14 x 11″—Corner to front 23¼″.
NOTE: Available with any W, P, V or R trimmings.

C 2320-P18



Exposed metal chromium plated

Trimmings . . . . . Pages 9-2 and 10-1

CRANE PORCELAIN ENAMELED LAVATORIES

EATON—C 2348-P18

LAVATORY: *Eaton* roll-rim corner lavatory, enamel on cast iron; 6″ back; concealed hangers.

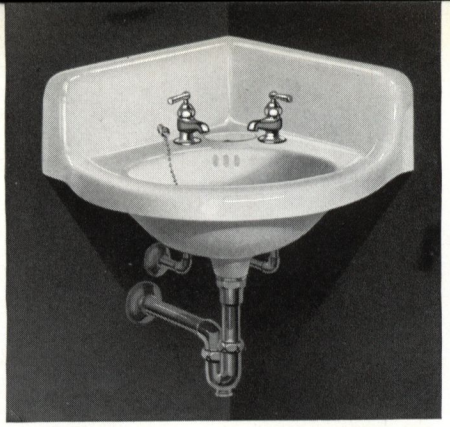
TRIMMINGS: P18; *Rival* faucets with chain and stopper waste.

SUPPLIES: 3/8″ angle supplies to wall.

TRAP: 1¼″ trap to wall.

Size: 16½ x 16½″, basin 14 x 11″, corner to front 23¼″.

NOTE: Available with any W or P trimmings.



C 2348-P18

RUGBY—C 2361-P18

LAVATORY: *Rugby* roll-rim corner lavatory, enamel on cast iron; 5″ back, soap depression; concealed hangers.

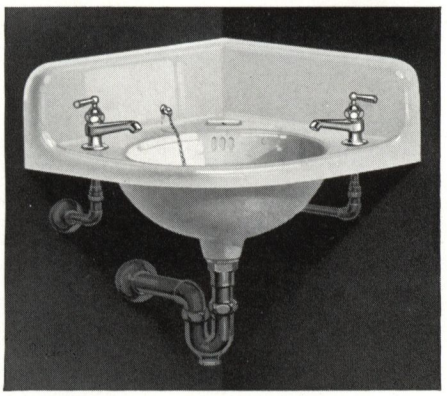
TRIMMINGS: P18; *Rival* faucets with chain and stopper waste.

SUPPLIES: 3/8″ angle supplies to wall.

TRAP: 1¼″ trap to wall.

Size: 15½ x 15½″, basin 12 x 12″, corner to front 18¾″.

NOTE: Available with any P trimmings.



C 2361-P18

CLOSIN—C 2370-X5

LAVATORY: *Closin* apron lavatory, enamel on cast iron; 6″ back; concealed hanger.

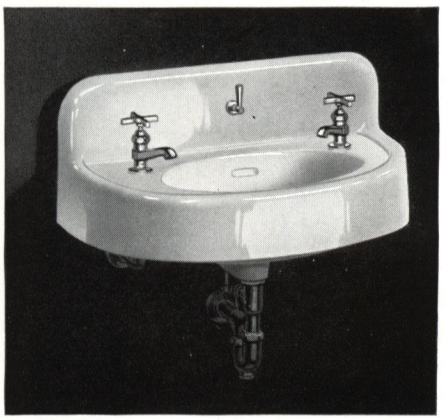
TRIMMINGS: X5; *Telsa Jr.* faucets and *Rival* pop-up waste thru back.

SUPPLIES: 3/8″ angle supplies to wall.

TRAP: 1¼″ trap to wall.

Size: 26 x 14″, basin 16 x 10″.

NOTE: Available with any P or X trimmings.



C 2370-X5

C 2400-P18



FAIRFAX—C 2400-P18

LAVATORY: *Fairfax* roll-rim lavatory, enamel on cast iron; with back; concealed hanger.

TRIMMINGS: P18; *Rival* faucets with chain and stopper waste.

SUPPLIES: 3/8″ angle supplies to wall.

TRAP: 1¼″ trap to wall.

Sizes: 19 x 17″ (6″ back) and 21 x 18″ (8″ back).
Basin: 14½ x 10½″, 16½ x 10½″.

NOTE: Available with any W or P trimmings.

C 2412-P18



WILTON—C 2412-P18

LAVATORY: *Wilton* roll-rim lavatory, enamel on cast iron; 5″ back; concealed hanger.

TRIMMINGS: P18; *Rival* faucets with chain and stopper waste.

SUPPLIES: 3/8″ angle supplies to wall.

TRAP: 1¼″ trap to wall.

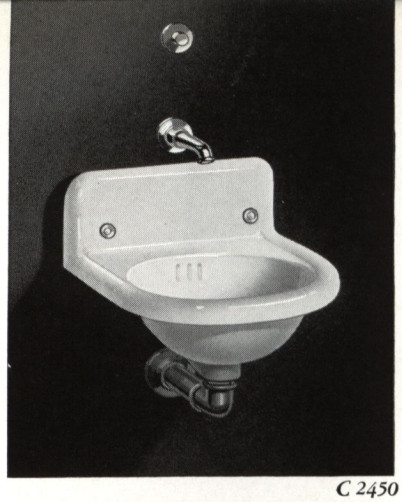
Size: 15 x 16″, basin 11½ x 11½″.

NOTE: Available with any P trimmings.

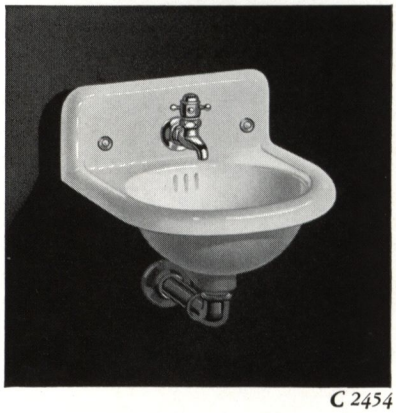
Exposed metal, chromium plated.

Trimmings . . . . . Pages 9-2 and 10-1

CRANE PORCELAIN ENAMELED LAVATORIES



C 2450



C 2454

PRISON LAVATORIES

When ordering, specify thickness of partition thru which fixtures are to be fitted.

BETTERDAY—C 2450

LAVATORY: *Betterday* prison lavatory, enamel on cast iron; 5″ back; supporting bolts.

TRIMMINGS: ⅜″ vandal proof, self-closing, push button valve; rigid metal spout.

WASTE: Non-removable pull-up waste plug; 1¼″ waste to wall.

Size: 15 x 16″, basin 11½ x 11½″.

BETTERDAY—C 2454

LAVATORY: *Betterday* prison lavatory, enamel on cast iron; 5″ back; supporting bolts.

FAUCET: C 31-570, ½″ *Triumph* self-closing faucet.

WASTE: Non-removable pull-up waste plug; 1¼″ waste to wall.

Size: 15 x 16″, basin 11½ x 11½″.

LAVATORIES IN BATTERIES

Available in batteries of as many sections as specified.

AUSTIN—C 2520-P9

LAVATORIES: *Austin* roll-rim lavatories, enamel on cast iron.

SUPPORT: Painted cast iron double battery supporting frame assembly.

TRIMMINGS: P9; *Triumph* self-closing faucets with chain and stopper wastes.

Lavatory size: 20 x 16″, basin 15 x 10″.

Space: 2″ between sides, 4″ between backs.

NOTE: Available with any P trimmings.

C 2520-P9



CORONA—C 2528-P18

LAVATORIES: *Corona* lavatories, enamel on cast iron.

SUPPORT: Painted cast iron single battery supporting frame assembly.

TRIMMINGS: P18; *Rival* faucets with chain and stopper wastes.

Lavatory size: 24 x 20″, basin 16 x 11″.

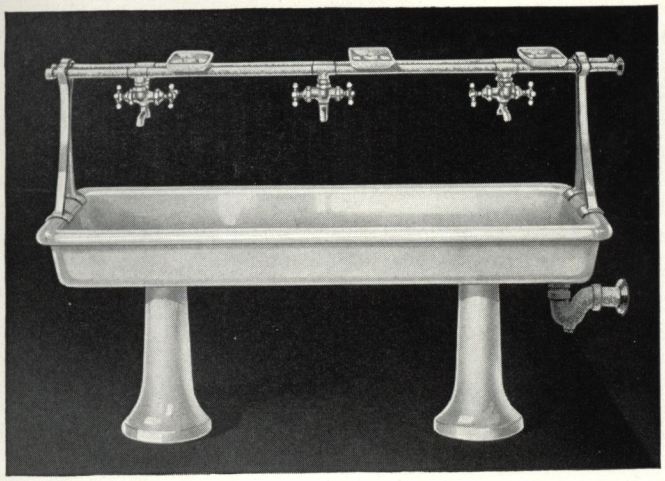
Space: 3¼″ between sides, 2″ between wall and back.

NOTE: Available with double battery support similar to C 2520. Available with any WM, W, P or V trimmings.

C 2528-P18



CRANE WASH SINKS



C 2591

SINK: Enameled inside, painted outside, roll rim wash sink, with end outlet, and painted iron pedestals.

FAUCETS: C 32-940, ¾″ rough *Telsa* faucets with twin spouts.

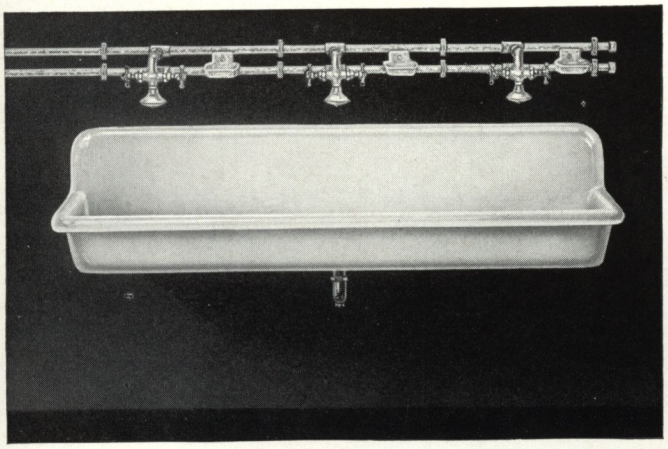
DISHES: C 2591 galvanized iron double soap dishes.

SUPPORTS: Painted iron supply pipe supports.

WASTE: C 33-804 open waste strainer, and 1½″ galv. iron "P" trap.

Sizes: 4′, 5′ and 6′ x 30″ wide.
Faucets: 2, 3, 3

NOTE: Supply piping not included.



C 2640

SINK: Enameled inside, painted outside, roll rim wash sink, with 8″ back, center outlet, and concealed hangers.

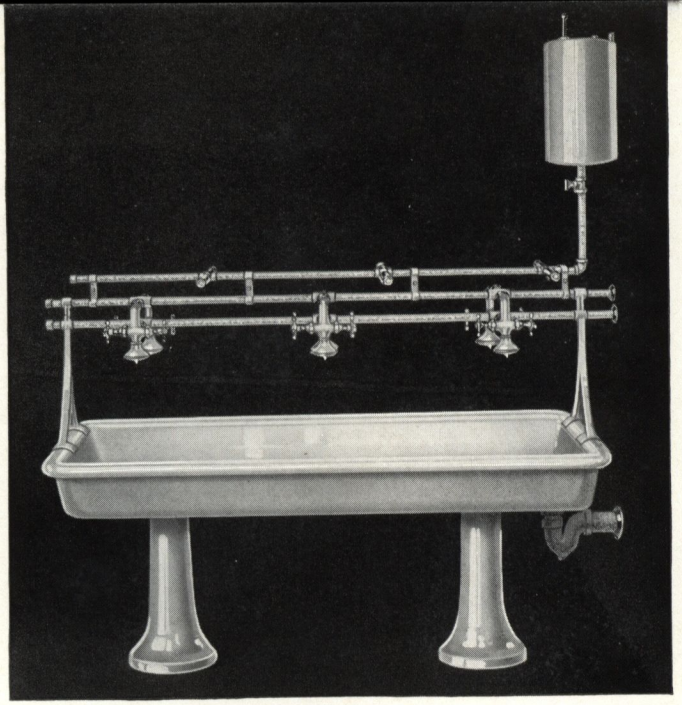
FAUCETS: C 32-912, ¾″ rough *Telsa* faucets with 3″ sprays.

DISHES: C 2620 galvanized iron soap dishes.

WASTE: C 33-804 open waste strainer, and C 33-987 1½″ rough "P" trap.

Sizes: 3′, 4′, 5′ and 6′ x 18″.
Faucets: 2, 2, 3, 3

NOTE: Supply piping not included. 6′ size available with two pedestals.



C 2582

SINK: Enameled inside, painted outside, roll rim wash sink, with end outlet, and painted iron pedestals.

FAUCETS: C 32-912, ¾″ rough *Telsa* faucets with 3″ sprays.

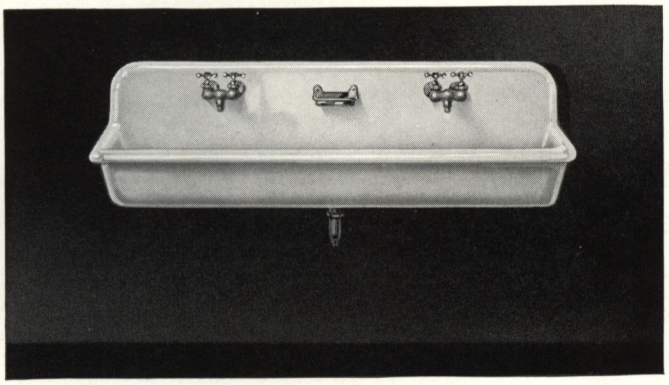
TANK: C 27-420 5 gal. gray enamel, liquid soap tank, and C 27-433 ⅜″ push button soap valves.

SUPPORTS: Painted iron supply pipe supports.

WASTE: C 33-804 open waste strainer, and 1½″ galv. iron "P" trap.

Sizes: 4′, 5′ and 6′ x 30″ wide.
Faucets: 4, 6, 6

NOTE: Supply piping and piping from soap tank not included.



C 2650

SINK: Enameled inside, painted outside, roll rim wash sink, with soap dish, 8″ back, center outlet, and concealed hangers.

FAUCETS: C 32-905, ¾″ rough *Telsa* faucets.

WASTE: C 33-804 open waste strainer, and C 33-987 1½″ rough "P" trap.

Sizes: 3′, 4′, 5′ and 6′ x 18″.
Faucets: 2, 2, 3, 3

NOTE: 6′ size available with two pedestals.

Wash sink faucets . . . . . Page 90

Traps . . . . . Page 95

PRICE LIST APPLYING TO No. 675-C CATALOG

PRICES GIVEN BELOW WILL BE HELPFUL IN APPROXIMATING COSTS, OR COMPARING THE COST OF ONE FIXTURE WITH ANOTHER. ALL FIXTURES ARE PRICED COMPLETE AS DESCRIBED, READY FOR INSTALLATION EXCEPT WHERE OTHERWISE NOTED.

ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE WHITE	PRICE COLOR	SHPG. WT.
	CHINA LAVATORIES				
2-1	C 126, *Neuvogue*.....	27x22	$78.50	$94.20	120
	C 128, *Neuvogue*.....	27x22	95.00	110.70	140
2-2	C 129-L1, *Diana*.....	24x20	62.70	72.85	95
		27x21	72.25	87.25	110
	IF WITHOUT TOWEL BARS...DEDUCT		7.60	7.60	
	C 129-E2, *Diana*.....	24x20	61.45	71.65	95
	IF WITHOUT TOWEL BARS...DEDUCT		7.60	7.60	
3-1	C 138-L1, *Corwith*.....	33x24	112.20	147.15	210
		36x24	130.30	174.30	220
		42x24	157.40	214.95	230
	IF WITHOUT TOWEL BARS...DEDUCT		7.60	7.60	
	C 154-L13, *Norwich*.....	24x21	51.75	62.20	115
		27x22	59.90	75.20	135
		30x24	79.25	106.20	170
	C 154-WM11, *Norwich*.....	20x18	41.85	48.95	80
		24x21	47.50	57.95	115
		27x22	55.65	70.95	135
		30x24	75.00	101.95	170
	IF WITHOUT TOWEL BARS...DEDUCT		5.00	5.00	
3-2	C 163, *Drexel*.....	22x18	58.25	71.15	100
		27x21	67.05	85.70	130
	IF WITHOUT TOWEL BARS...DEDUCT		7.60	7.60	
	C 168, *Drexel*.....	22x18	48.35	61.25	95
		27x21	57.20	75.85	125
	IF WITHOUT TOWEL BARS...DEDUCT		5.00	5.00	
4-1	C 170-WM11, *Corwith*.....	23½x17½	52.80	64.10	115
	IF WITHOUT TOWEL BARS...DEDUCT		5.00	5.00	
	C 174, *Cromwell*.....	26x14	46.65	60.35	90
4-2	C 180-E2, *Sterling*.....	20x18	59.05	71.90	100
		24x21	60.90	74.10	125
	IF WITHOUT TOWEL BARS...DEDUCT		7.60	7.60	
	C 183, *Oxford*.....	19x17	41.10	49.55	95
	IF WITHOUT TOWEL BARS...DEDUCT		5.00	5.00	
5-1	C 200, *Neuvogue*.....	27x22	80.00	101.15	175
	IF WITHOUT TOWEL BARS...DEDUCT		12.50	12.50	
	C 255-L13; *Norwich*.....	24x21	48.55	64.45	180
		27x22	56.70	77.45	200
		30x24	76.05	108.45	220
	CHINA LAVATORIES (Con't)				
5-2	C 279, *Coronet* WITH CAB...	24x20	$67.60	$80.10	170
	IF WITHOUT TOWEL BARS..DEDUCT		2.50	2.50	
	C 290, *Westland*, WITHOUT TRIM.....	20x19	11.05	16.60	60
6-1	C 303-L1, *Diana*.....	24x20	59.75	---	120
		27x21	69.75	---	135
	C 398-WM11, *Norwich*.....	20x18	34.30	---	75
		24x21	39.95	---	110
		27x22	52.00	---	130
		30x24	71.35	---	170
	C 417-L13, *Norwich*.....	24x21	49.90	---	135
	C 428-WM11, *Norwich*.....	20x18	46.70	---	90
6-2	C 506-V12, *Norwich*.....	20x18	32.05	43.15	100
		24x21	39.55	55.15	125
	C 589-E2, *Sterling*.....	20x18	46.90	62.55	110
		24x21	48.80	64.70	125
	C 597-L13, *Norwich*.....	24x21	44.10	57.35	125
		27x22	52.25	70.35	135
		30x24	71.60	101.40	175
7-1	C 610, *Oxford*.....	19x17	29.05	37.50	85
	C 630-V12, *Sterling*.....	20x18	33.65	46.55	90
	C 636-WM11, *Corwith*.....	23½x17½	55.90	---	100
	C 640, *Cromwell*.....	26x14	39.60	53.30	85
	C 645-E2, *Russell*.....	20x18	44.20	---	85
		24x21	46.20	---	130
7-2	C 650-X5, *Hermitage*.....	20x13½	27.00	35.30	65
		26x13½	29.70	39.65	90
	C 654, *Hermitage*.....	20x13½	27.70	36.00	65
		26x13½	30.40	40.30	90
	C 682-V12, *Ipswich*.....	17x17	34.80	47.55	95
	C 696-V12, *Corwith*.....	12¼x12¼	37.90	---	80
	C 754-R9, *Norwich*.....	20x18	31.25	39.70	90
		24x21	38.75	51.70	120
8-1	C 754-V12, *Norwich*.....	18x15	27.25	35.40	75
		20x18	27.60	36.05	90
		24x21	35.10	48.05	120
	C 765-WM11, *Norwich*.....	20x18	42.30	---	110

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PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE WHITE	PRICE COLOR	SHPG. WT.
	CHINA LAVATORIES				
8-1	C800-W5, *Chelsea*.....	20x18	$25.60	---	95
	C940, CHINA BASIN.....	14	4.20	---	25
		14x17	8.05	---	20
		15x19	10.55	---	30
8-2	C1101, *Parvus*.....	14½x13	21.50	---	65
	C1103, *Parvus*.....	14½x13	17.75	---	65
	C1105, *Parvus*.....	14x14	25.70	---	70
	C1107, *Parvus*.....	14x14	21.95	---	70
	C1118, *Folsom*.....	20x15	30.85	---	70
	C1119, *Folsom*.....	20x15	28.55	---	70
	C1212, *Corwith*, DENTAL...	16x15	33.80	42.80	70
	C1221, *Dentrix*.....	12x12	22.75	29.35	55
9-1	**LAVATORIES IN BATTERIES (Traps, waste and vent piping not included)**				
	C1485-R9 *Norwich*, IN DOUBLE BATTERIES				
	BATTERY OF 4	24x20	143.20	---	400
	BATTERY OF 6	24x20	211.65	---	600
	BATTERY OF 8	24x20	280.00	---	800
	C1500-P9 *Monroe*, IN SINGLE BATTERIES				
	BATTERY OF 2	18x17	53.15	---	140
	BATTERY OF 3	18x17	77.50	---	210
	BATTERY OF 4	18x17	101.90	---	280
	C1804 *Ipswich*, MANICURE TABLE.....	32x18	58.85	---	140
	C1846 *Norwich*, BARBER LAVATORY....	24x27	71.85	---	195

PAGE	LAVATORY TRIMMINGS	Chromium Plated
9-2	E2, *Criterion*.....	$16.25
	K1, *Criterion*.....	23.75
	K3, *Criterion*.....	23.00
	L1, *Criterion*.....	17.80
	L6, *Rival*.....	20.30
	L13, *Rival*.....	14.40
	WM6, *Rival*.....	16.05
9-2	WM9, *Rival*.....	$ 8.50
	WM11, *Rival*.....	10.15
	V12, *Rainier*.....	7.45
	V14, *Rainier*.....	5.80

SUFFIX LETTER NUMBER	R	W	X	P CHINA	P ENAM.
1.....	$16.70	$14.30	$15.90	$12.15	$11.70
3.....	15.00	12.65	14.20	10.45	10.00
4.....	9.30	6.95	8.50	4.75	4.30
5.....	8.20	5.80	7.40	3.65	3.20
9.....	11.45	9.05	10.65	6.90	6.45
10.....	11.45	9.05	10.65	6.90	6.45
18.....	8.00	5.60	7.20	3.45	3.00

PAGE	ENAMELED LAVATORIES	SIZE	WHITE REGULAR	WHITE A.R.	SHPG. WT.
10-2	C1991, *Coronado-Lavinet*.	24x20	---	$41.95	160
	C1993, *Neuday*.....	19x17	$34.20	35.15	120
		24x18	37.95	39.25	150
	IF WITHOUT TOWEL BARS..DEDUCT		2.50	2.50	
10-2	C1995-WM11, *Corwith*.....	24x20	38.95	40.35	135
		27x22	48.95	51.65	165
	FOR COLORED LAVATORY, ADD	24x20	---	2.30	
		27x22	---	4.35	
	IF WITHOUT TOWEL BARS..DEDUCT		5.00	5.00	
	C2000-L13, *Corwith*.....	24x20	38.10	40.65	205
		27x22	48.10	51.90	235
	FOR COLORED LAVATORY, ADD	24x20	---	4.20	
		27x22	---	6.30	
	C2050-WM11, *Corona*.....	24x20	28.60	29.95	135
		27x22	38.60	41.20	165
	C2095, *Neuday*.....	19x17	30.35	31.30	90
		24x18	33.45	34.80	110
	IF WITHOUT TOWEL BARS..DEDUCT		5.00	5.00	
11-2	C2100 *Neuday*.....	19x17	18.25	19.20	80
		24x18	21.40	22.70	100
	FOR COLORED LAVATORY, ADD	19x17	---	2.05	
		24x18	---	2.65	

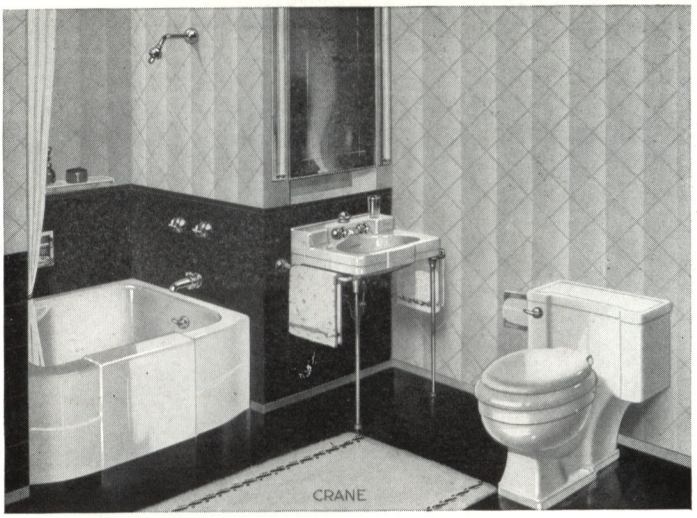
PRICE LIST APPLYING TO No. 675-C CATALOG

PRICES GIVEN BELOW WILL BE HELPFUL IN APPROXIMATING COSTS, OR COMPARING THE COST OF ONE FIXTURE WITH ANOTHER. ALL FIXTURES ARE PRICED COMPLETE AS DESCRIBED, READY FOR INSTALLATION EXCEPT WHERE OTHERWISE NOTED.

ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE WHITE REGULAR	PRICE WHITE A.R.	SHPG. WT.
	ENAMELED LAVATORIES				
11-2	C 2149-V12 *Rhodile*.....	20x18	$23.90	$25.55	115
	FOR COLORED LAVATORY, ADD		---	2.65	
	C 2150-P18 *Rhodile*.....	20x18	15.10	16.15	85
	FOR COLORED LAVATORY, ADD		---	1.80	
	C 2163-W5 *Colorado*.....	21x17	22.30	23.90	120
		24x18	24.45	26.40	140
	C 2170-W5 *Colorado*.....	21x17	17.90	18.95	95
		24x18	20.10	21.45	115
12-1	C 2200-W5 *Nevada*.....	24x20	23.10	24.85	95
	C 2210-W5 *Nevada*.....	24x20	27.45	29.75	155
	C 2240-P18 *Norfolk*.....	21x18	15.10	16.15	75
	C 2250-P18 *Norfolk*.....	21x18	19.45	21.10	120
	C 2251-V14 *Carolina*.....	19x17	16.65	17.60	75
	C 2251-P18 *Carolina*.....	19x17	13.85	14.80	75
	C 2320-P18 *Kent*.....	16½x16½	17.95	---	90
		19x19	20.45	---	95
12-2	C 2348-P18 *Eaton*.....	16½x16½	17.65	---	85
	C 2361-P18 *Rugby*.....	15½x15½	17.65	---	60
	C 2370-X5 *Closin*.....	26x14	23.90	---	85
	C 2400-P18 *Fairfax*.....	19x17	13.60	---	70
		21x18	14.85	---	80
	C 2412-P18 *Wilton*.....	15x16	13.30	---	50
13-1	C 2450 *Betterday*.....	15x16	18.50	---	50
	C 2454 *Betterday*.....	15x16	17.75	---	50

PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE WHITE REGULAR	PRICE WHITE A.R.	SHPG. WT.
	LAVATORIES IN BATTERIES				
13-1	C 2520-P9 *Austin* IN DOUBLE BATTERIES				
	BATTERY OF 4, 20x16		$104.80	---	400
	BATTERY OF 6, 20x16		154.50	---	625
	BATTERY OF 8, 20x16		197.80	---	850
	C 2528-P18 *Corona* IN SINGLE BATTERIES				
	BATTERY OF 2, 24x20		48.25	---	375
	BATTERY OF 3, 24x20		71.15	---	530
	BATTERY OF 4, 24x20		94.00	---	685
	WASH SINKS				
14-1	C 2582, WITHOUT TRAP.....	4'	97.80	102.95	370
		5'	131.80	139.05	430
		6'	138.70	146.80	470
	C 2591, WITHOUT TRAP.....	4'	65.95	71.05	350
		5'	88.95	96.20	410
		6'	95.80	103.95	450
	C 2640.....	3'	50.20	54.65	170
		4'	61.20	67.10	230
		5'	75.70	82.65	280
		6'	82.80	90.55	335
	C 2650.....	3'	49.05	53.95	140
		4'	60.50	66.40	170
		5'	75.15	82.05	220
		6'	82.25	90.00	260

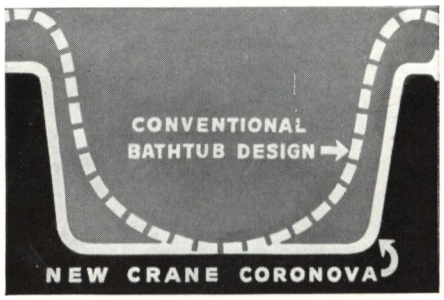


The panel design of the *Neuvogue Receptor Bath* in the above illustration is echoed in both lavatory and closet to produce a smart looking, matched ensemble. The complete Crane line of paneled fixtures permits selection of many combinations to create unified matched sets which add charm and distinction to the bathroom.

The modern, first quality bath fixtures presented within the following pages, have been carefully selected to provide unlimited possibilities in the planning of new or remodeled bathrooms. There are styles and sizes to meet practically any requirement and to suit most any budget.

Crane baths are unusually roomy, with broad, nearly flat bottom surface to lessen the danger of slipping. They are made of cast iron with a heavy coating of porcelain enamel fused on, to produce a beautiful durable glaze. Through years of research and trial, porcelain enamel on cast iron has proved to be the most durable and sanitary material for bathtubs.

For quick reference the general contents comprising the Crane bath section are listed below.

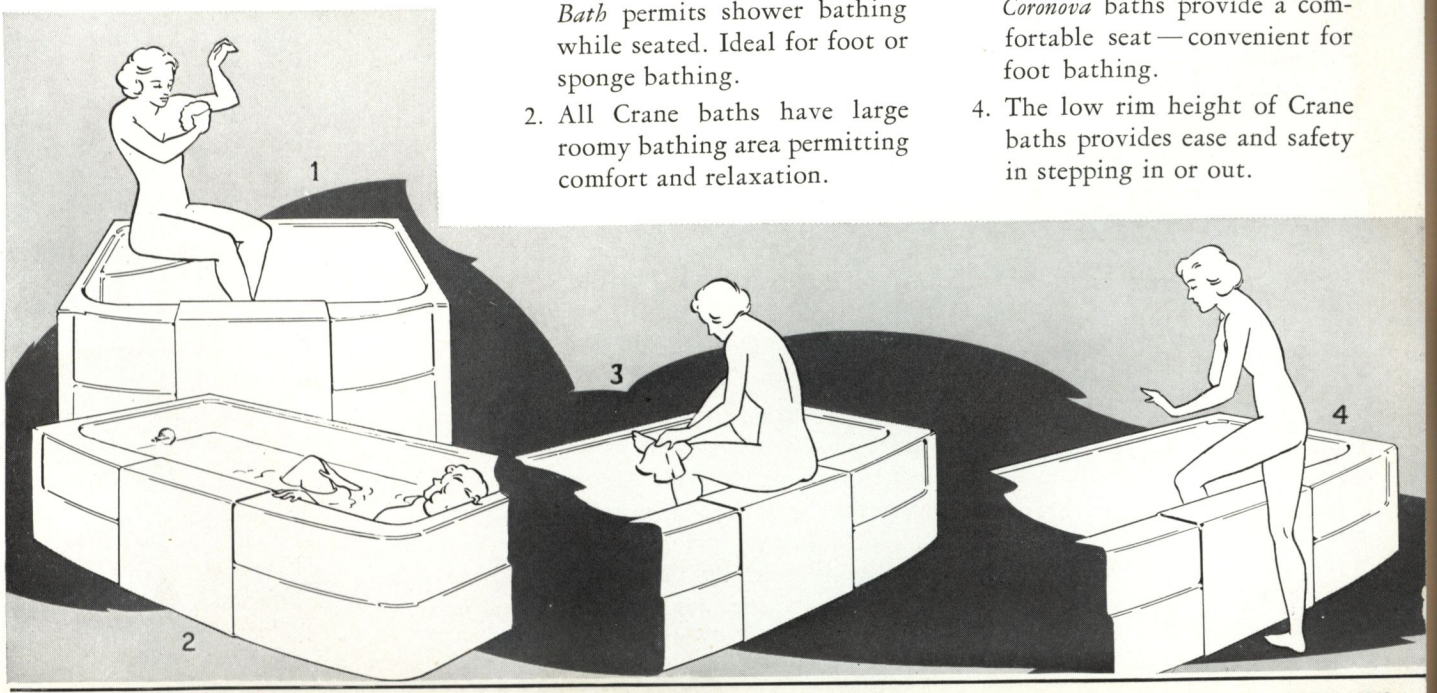


Flat bottom is a safety feature giving greater security to bather. Straight sides allow for a greater usable supply of water. A raised tiling ledge prevents water leaking behind tub.

NEUVOGUE RECEPTOR BATH – – – – – – – – – – – – – – Pages 16-1
NEUVOGUE CORNER BATHS – – – – – – – – – – – – – – – – 16–2
NEUVOGUE RECESS BATHS – – – – – – – – – – – – – – – – 17-1
CORONOVA CORNER BATHS – – – – – – – – – – – – – – – – 17-2
CORONOVA RECESS BATHS – – – – – – – – – – – – – – – – 18-1
TARNIA REVERSIBLE BATHS – – – – – – – – – – – – – – – 18-2
VERNA RECESS ROLL RIM BATHS – – – – – – – – – – – – 19-1
DORIS & MEDIO ROLL RIM BATHS – – – – – – – – – – – – 19-1
BATH TRIMMINGS – 20 to 22
BATH ENCLOSURES – 23-1
BATHTUB HANGERS – 24-1

The Utmost in Bathing Convenience

1. Corner seat in *Neuvogue Receptor Bath* permits shower bathing while seated. Ideal for foot or sponge bathing.
2. All Crane baths have large roomy bathing area permitting comfort and relaxation.
3. Wide flat rims on *Neuvogue* and *Coronova* baths provide a comfortable seat — convenient for foot bathing.
4. The low rim height of Crane baths provides ease and safety in stepping in or out.

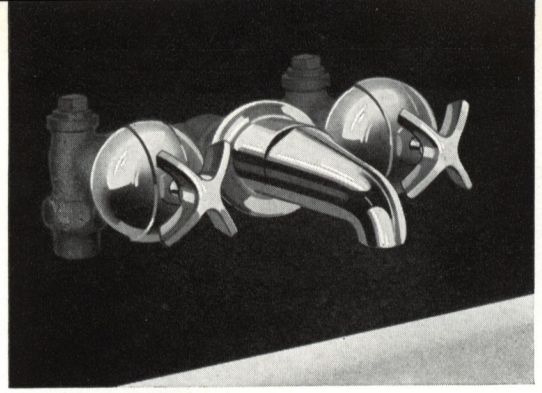


CRANE BATH TRIMMINGS

BY those who demand reasonable initial cost, ease of installation and years of trouble-free service, the merit in design, materials and workmanship of Crane bath trimmings has long been recognized. All wearing parts of valves are easily removable for repair or replacement without disturbing the valves.

Three Unusual Patterns

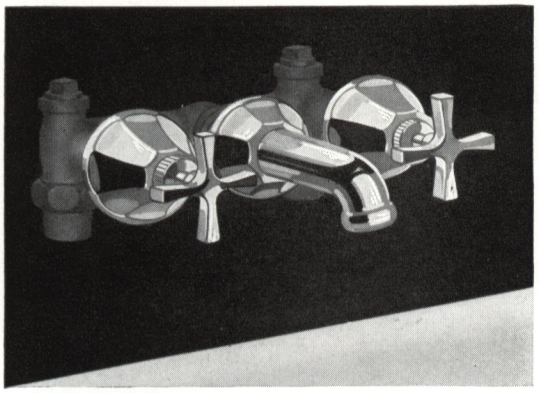
Crane bath trimmings are styled in three distinctive patterns—*Criterion*, *Rival*, and *Neuvogue*—each carefully developed to complement Crane modern bathtub design. Trimmings in these patterns are also available for lavatory, closet and shower stall, assuring matched bathroom ensembles.



The Criterion Pattern

CRITERION

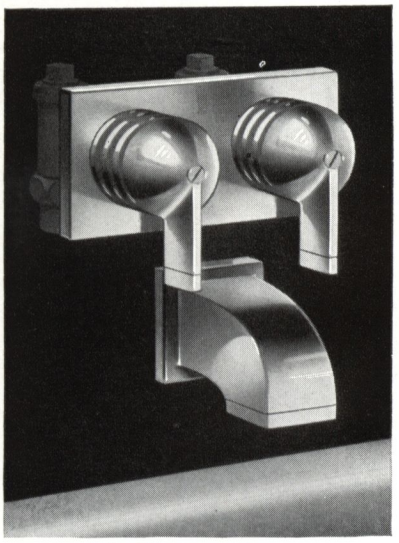
The charming *Criterion* group is the newest Crane development, incorporating the very latest step forward in practical design and modern appearance—yet conventional enough to suit the most conservative of tastes. The curved handles fit the palm easily—the smooth sweeping design permits quick and thorough cleaning. The *Criterion* pattern with its panel effects provides complete style harmony for new Crane paneled fixtures.



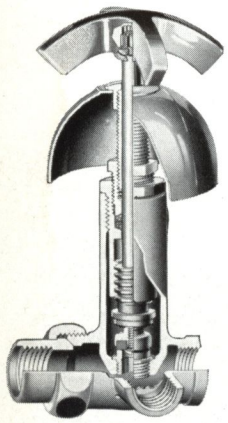
The Rival Pattern

RIVAL

The smart looking *Rival* group needs no introduction, having stood the test of time and popularity. This trim includes most of the engineering features incorporated in the fine *Criterion* line—providing the same practical utility at a cost within the modest budget.



The Neuvogue Pattern



Section thru bath valve.

NEUVOGUE

The attractive *Neuvogue* group is definitely modern in style and provides individuality in the decorative treatment of any bathroom. This trim is especially designed for use with *Neuvogue* fixtures.

Some Features of the Bath Valve

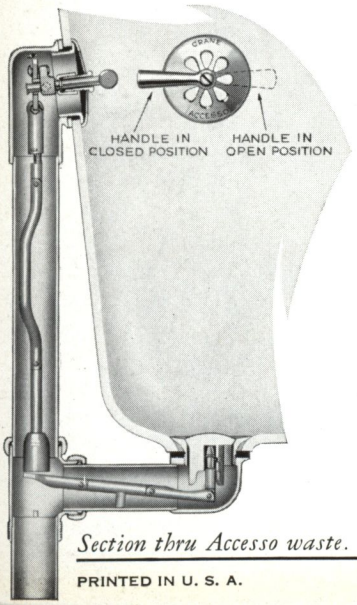
All working parts are easily removable from face of wall, including screw-in type renewable seat, and centerpiece unit which permits renewing stem threads.

Packing gland extends beyond face of wall—any leakage becomes noticeable before walls are damaged.

Handle and escutcheon are easily removed when decorating walls—escutcheon assembly adjustable to meet 2¼ to 3¼″ roughing-in.

Swivel disc reduces wear on disc and seat—disc encased to prevent spreading in service.

See Features of *DEVIATOR* Spout on Page 22-1.



Section thru Accesso waste.

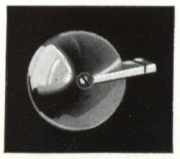
ACCESSO Pop-up Waste and Overflow

The patented Crane *Accesso* is unique in that all operating or wearing parts may be removed through the outlet and overflow openings without disturbing the waste or piping. No corridor or utility cupboard is necessary. Possibility of marring plated parts is minimized because operating units need not be inserted until workers are off the job. Monel metal pins in brass operating rods resist corrosion and wear. A threaded verticle rod allows for variation.

Criterion Trimmed Accesso



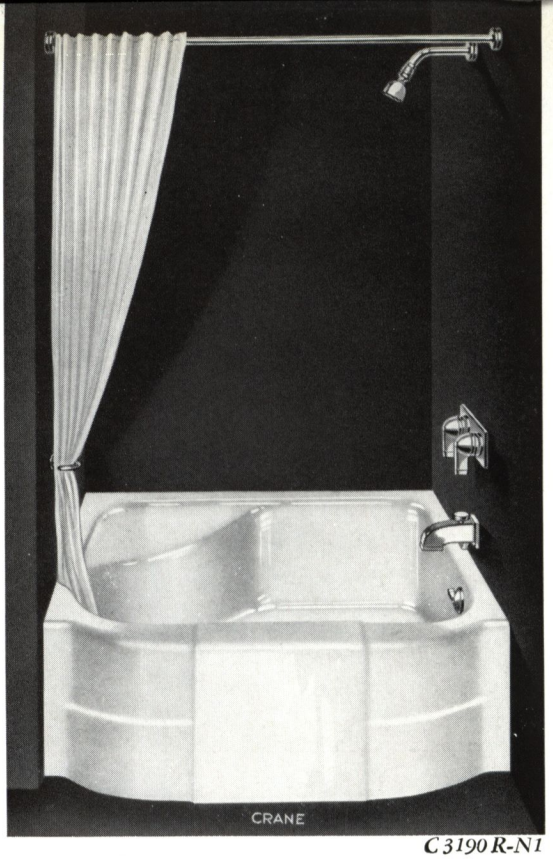
Neuvogue Trimmed Acceso



CRANE RECESS BATHS

ENAMELED CAST IRON

Available in white regular enamel and white or colored acid resisting enamel.



C 3190 R-N1

NEUVOGUE RECEPTOR BATH

C 3190 R-N1 (Right hand outlet)
C 3190 L-N1 (Left hand outlet)
Patented

BATH: *Neuvogue Receptor Bath*, enamel on cast iron.

TRIMMINGS: N1 *Neuvogue* ½" bath and shower fixture, with *Deviator* automatic spout and water-saver shower head; 1½" *Accesso* pop-up waste and overflow.

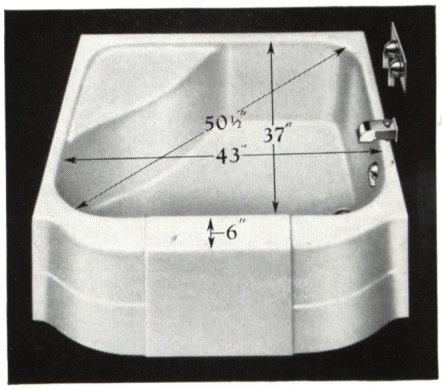
CURTAIN: *Neuvogue* 1" O.D. curtain rod; 8-ounce white duck curtain with concealed rings and hold-back hook.

All exposed metal chromium plated.

Size: 4′ x 46″ wide.

Features

The *Neuvogue Receptor Bath* offers an ideal solution in remodeling or new work where restricted space or odd-shaped rooms are encountered.



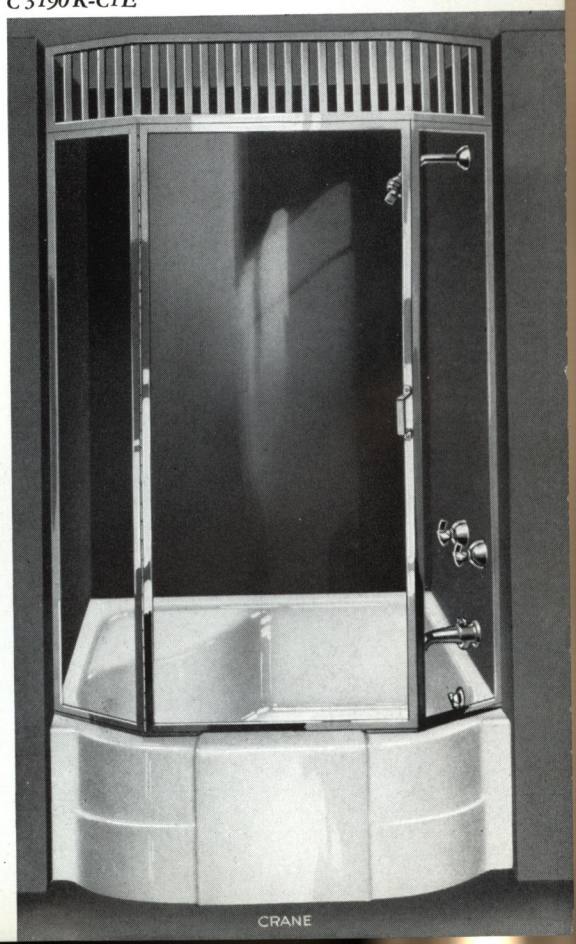
Although only 4 feet long, the design actually provides the bathing length area of a 5½ foot tub.

Large flat-bottom area reduces danger of slipping when shower bathing. A gradual pitch to outlet assures proper draining.

Convenient seat in corner facilitates use of tub for foot or sponge bathing and permits shower bathing while seated.

Wide front rim forms a comfortable seat, only 16 inches above floor—assures ease and safety in stepping into or out of tub.

C 3190 R-C1E



NEUVOGUE RECEPTOR BATH

C 3190 R-C1E (Right hand outlet)
C 3190 L-C1E (Left hand outlet)
Patented

BATH: *Neuvogue Receptor Bath*, enamel on cast iron.

TRIMMINGS: C1 *Criterion* ½" bath and shower fixture, with *Deviator* automatic spout and water-saver shower head; 1½" *Accesso* pop-up waste and overflow.

ENCLOSURE: *Neuvogue Receptor Bath*, clear heavy glass enclosure with single hinged door; metal frame and ventilating grille.

All exposed metal chromium plated.

Size: 4′ x 46″ wide.

NOTE: For above combination with *Criterion* curtain rod, hold back hook and white duck curtain, less the enclosure, omit "E" from catalog number.

Trimmings . . . . . Pages 20 to 22

CRANE CORNER BATHS

ENAMELED CAST IRON

Available in white regular enamel and white or colored acid resisting enamel.

NEUVOGUE

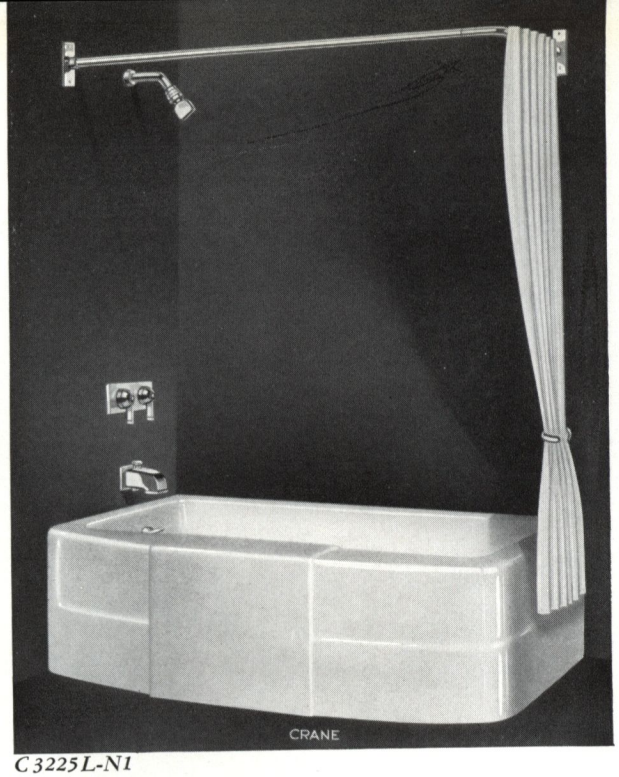
C 3225 L-N1 (Left hand corner)
C 3225 R-N1 (Right hand corner)
Patented

BATH: *Neuvogue* corner bath, enamel on cast iron.

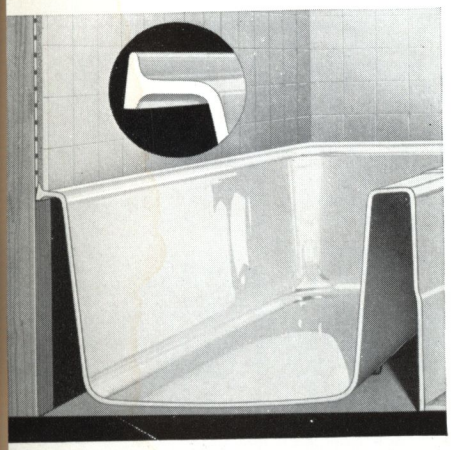
TRIMMINGS: N1 *Neuvogue*, ½" bath and shower fixture, with *Deviator* automatic spout and water-saver shower head; 1½" *Accesso* pop-up waste and overflow.

CURTAIN: *Neuvogue* 1" O.D. corner rod; 8-ounce white duck curtain with concealed rings and hold-back hook.

All exposed metal chromium plated.



C3225L-N1



Note the raised tiling ledge, an assurance against water seepage; and the broad flat surfaces to assure comfort and safety.

Overall Dimension

	5′	5½′
Nominal sizes		
Length	60¾"	66¾"

Width 32½" — Height 18" — Depth inside 17"

Neuvogue Features

Ultra-modern lines and practical beauty for the bathroom of character.

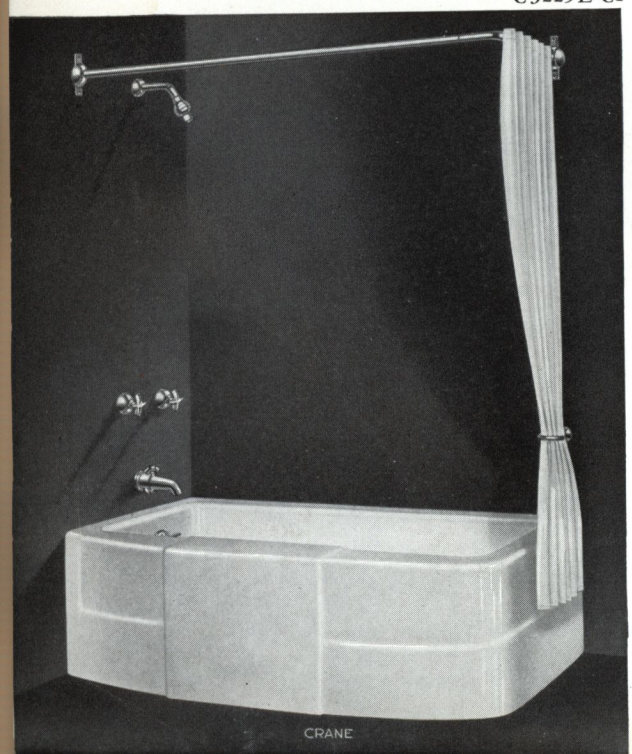
Front apron of bath is bowed out to form a wide comfortable seat—handy for foot bathing and providing a safe way for stepping into or out of bath.

The flattened contour of the bottom minimizes the hazard of slipping.

Slope end also has a flat contour which gives liberal freedom for the back and arms of bather, yet permits comfort in a reclining position.

A complete line of *Neuvogue* design fixtures and trimmings are available, enabling selection of a matched *Neuvogue* ensemble for the bathroom.

C3225L-C1



NEUVOGUE

C 3225 L-C1 (Left hand corner)
C 3225 R-C1 (Right hand corner)
Patented

BATH: *Neuvogue* corner bath, enamel on cast iron.

TRIMMINGS: C1 *Criterion*, ½" bath and shower fixture, with *Deviator* automatic spout and water-saver shower head; 1½" *Accesso* pop-up waste and overflow.

CURTAIN: C 4945 *Criterion* 1" O.D. corner rod; 8-ounce white duck curtain with concealed rings and C 4990 hold-back hook.

All exposed metal chromium plated.

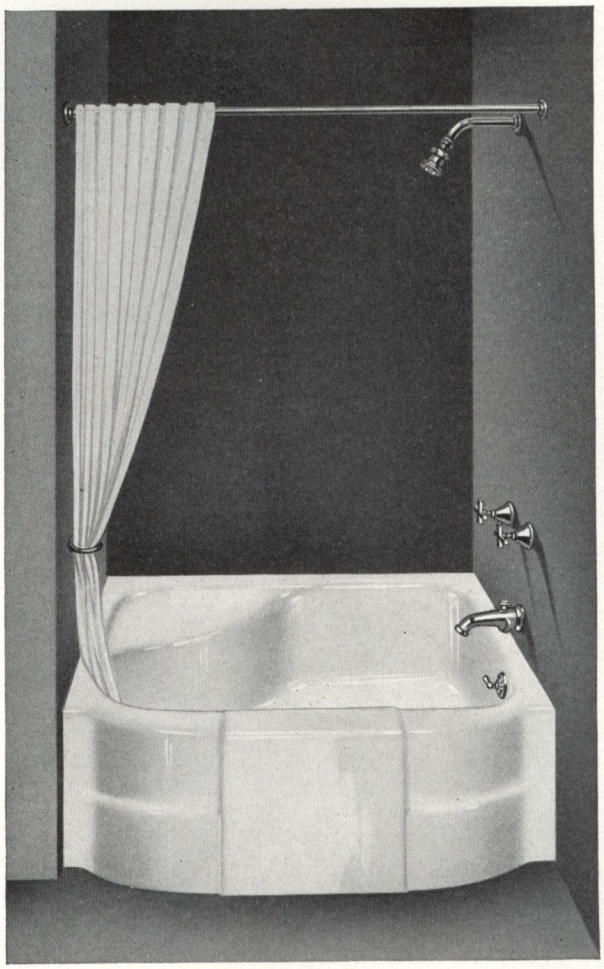
Trimmings . . . . . Pages 20 to 22.

"NEUVOGUE RECEPTOR BATH" OF PORCELAIN ENAMELED CAST IRON

Reg. U. S. Pat. Off.

(Patent Pending)

As an ideal solution in remodeling or new work where restricted space or odd-shaped rooms are encountered, we offer the *Neuvogue Receptor Bath,* only four feet long.



C 3190-LB93 (with Left Hand Outlet)
C 3190-RB93 (with Right Hand Outlet)

C 3190-LB93 or C 3190-RB93

Bath, *Neuvogue Receptor Bath* of porcelain enameled cast iron with integral seat in corner and center panel seat on rim.

Fixture, (B 93) ½" *Rival* bath and shower fixture with *Deviator* automatic spout, *Refreshor* shower head with ball joint, and 1½" *Accesso* pop-up waste and overflow.

Curtain Rod, 1" O.D. straight curtain rod.

Curtain, 8-ounce white duck curtain with snap hooks and hold back hook.

All Exposed Metal Chromium Plated

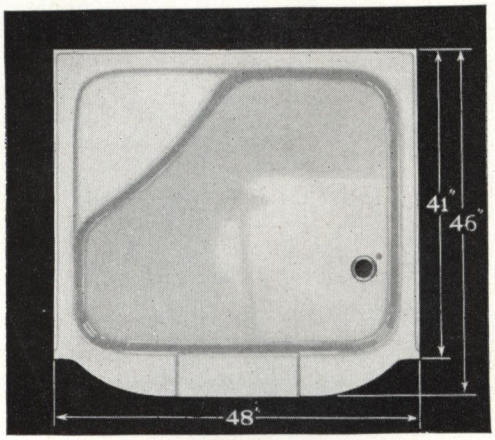
Shipping weight, approximate ..... pounds 570

The *Neuvogue Receptor Bath* is available in regular and acid-resisting white and acid-resisting colored enamel.

ADVANTAGES TO THE USER

- Large flat-bottom area reduces danger of slipping when shower bathing.
- Only 16 inches from floor to rim—easy to step in and out.
- Wide front rim forms a comfortable seat.
- Convenient moulded-in seat in tub corner facilitates use of tub for foot or sponge bathing and permits shower bathing while seated.
- Four-foot size permits installation in small space yet the design actually gives a tub 5½ feet long.

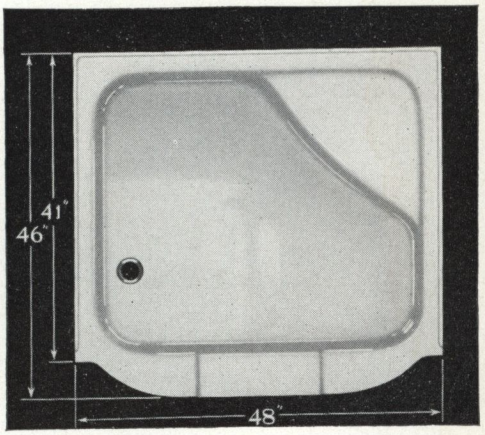
  The bottom, although wide and flat, has a gradual pitch toward the outlet which assures rapid draining.



C 3190-R (Right Hand Outlet)

The *Neuvogue Receptor Bath* is designed to tile into wall 1". A ½" high raised tiling ledge prevents seepage behind wall.

Only 16", rim to bottom of apron and 15" deep inside at outlet.



C 3190-L (Left Hand Outlet)

The *Neuvogue Receptor Bath* can also be furnished with a plate glass shower enclosure as illustrated on the reverse.

"NEUVOGUE" PORCELAIN ENAMELED *CAST-IRON* CORNER BATHS

(PATENTED)

In the development of the Crane ***Neuvogue*** baths, Crane Co. has kept in mind the thought of making practical things beautiful. The creative mind of Henry Dreyfuss, a renowned industrial designer, combined with the skill of Crane engineers, has achieved this relationship. A few of its many features are as follows:



C 3225-LV95
(L) Left hand corner, left hand outlet (Illustrated).
C 3225-RV95
(R) Right hand corner, right hand outlet.

- Front apron of bath is bowed out providing a wide comfortable seat. Also assists the bather in getting into or out of bath.
- The flattened contour of the bottom of bath reduces the hazard of slipping to a minimum.
- The slope end also has a flat contour and gives liberal freedom for the back and arms of bather, yet permits comfort in a reclining position.
- Hardware and trimmings are of a matching design with other ***Neuvogue*** fixtures.

C 3225-LV95 or C 3225-RV95

Bath: ***Neuvogue*** enameled corner apron bath with flat contour bottom and center panel seat.

Fixture (V95): C 3851, ½-inch chromium plated ***Neuvogue*** concealed panel pattern overrim bath and shower fixture with ***Futura*** trimmings, renewable seats, lever handles, square type ***Deviator*** spout with escutcheon and shower head with adjustable ball joint; **C 33582,** 1½-inch chromium plated ***Neuvogue-Accesso*** pop-up waste and overflow.

Curtain Rod: C 4951, 28x57-inch chromium plated ***Neuvogue*** corner pattern curtain rod with rectangular wall flanges; **C 4985,** ***Neuvogue*** hold back hook.

Curtain: 8-ounce white duck shower curtain with concealed hangers.

	5 Foot	5½ Foot
Shipping weight, approx.....Pounds	540	640

Note: A 2-inch ***Neuvogue-Accesso*** pop-up waste and overflow can be furnished if required.

C 3225-LV33 or C 3225-RV33

Bath: ***Neuvogue*** enameled corner apron bath with flat contour bottom and center panel seat.

Fixture (V33): C 33500, ½-inch chromium plated ***Neuvogue*** concealed panel pattern overrim supply fixture with ***Futura*** trimmings, renewable seats, lever handles and square type spout with escutcheon; **C 33582,** 1½-inch chromium plated ***Neuvogue-Accesso*** pop-up waste and overflow.

	5 Foot	5½ Foot
Shipping weight, approx.....Pounds	520	620

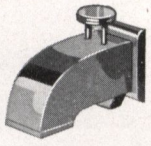
Note: A 2-inch ***Neuvogue-Accesso*** pop-up waste and overflow can be furnished if required.



C 3225-LV33
(L) Left hand corner, left hand outlet. (Illustrated.)
C 3225-RV33
(R) Right hand corner, right hand outlet.

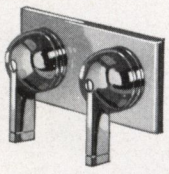
Dimensions

Nominal size	**Feet**	5	5½
Length overall	**Inches**	60¾	66¾
Width overall	**Inches**	32½	32½
Depth inside	**Inches**	17	17



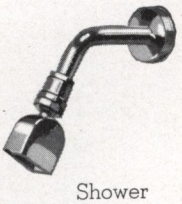
Overrim Spout

- The design of the spout is attractive and when furnished with the shower it incorporates the patented ***Deviator*** principle (illustrated) which permits the bather to divert the water to either the spout or shower head.



Control Fixture

- Distinctive handle design mounted on wall plate gives a compact appearance. The handles are indexed with colored bands — Red for hot and Green for cold. The valve construction presents a new departure with the ***Futura*** trimming—a renewable cartridge-like trimming unit. The valve closes with the pressure, making an easy-to-operate control fixture.



Shower

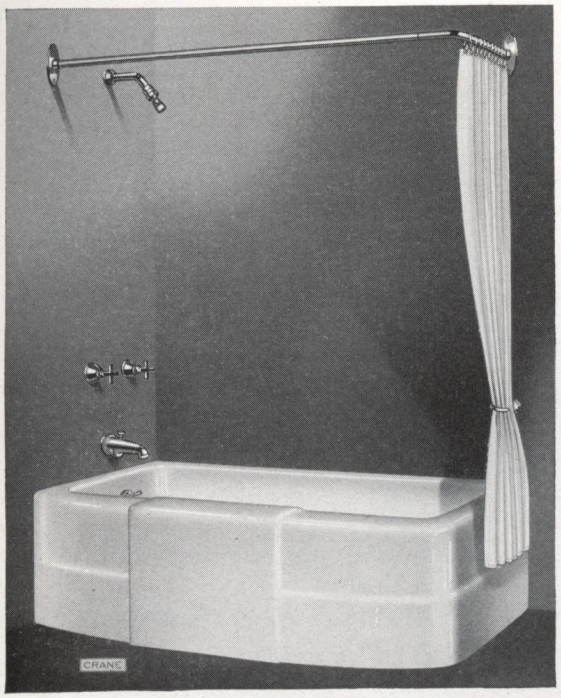
- Combined with the attractive ***Neuvogue*** shower head the features of the ***Economy*** shower have been embodied. It conserves water yet provides a good invigorating shower directing all of the water at the bather. It resists clogging due to the large diameter of outlet.

Neuvogue baths are furnished with regular or acid-resisting enamel in white or color.—See Crane color chart, page III.

For ***Neuvogue*** lavatories see pages 1-C and 1-D.
For ***Neuvogue*** closet see page 39-1.

"NEUVOGUE" PORCELAIN ENAMELED CAST-IRON CORNER BATHS

(PATENTED)



C 3225-LB91
(L) Left hand corner, left hand outlet. (Illustrated)
C 3225-RB91
(R) Right hand corner, right hand outlet.

C 3225-LB91
C 3225-RB91

Bath: ***Neuvogue*** enameled corner apron bath with flat contour bottom and center panel seat.

Fixture: (B91) ½-inch chromium plated ***Rival*** bath and shower fixture with ***Deviator automatic*** spout, ***Economy*** shower head with ball joint; 1½-inch ***Accesso*** pop-up waste and overflow.

Curtain Rod: 1-inch O.D. chromium plated corner curtain rod.

Curtain: 8-ounce white duck curtain with chromium-plated grommets, snap hooks, and hold-back hook.

		5-foot	5½-foot
Shipping weight, approx.	**Pounds**	530	630

C 3225-LB26 or C 3225-RB26

Bath: ***Neuvogue*** enameled corner apron bath with flat contour bottom and center panel seat.

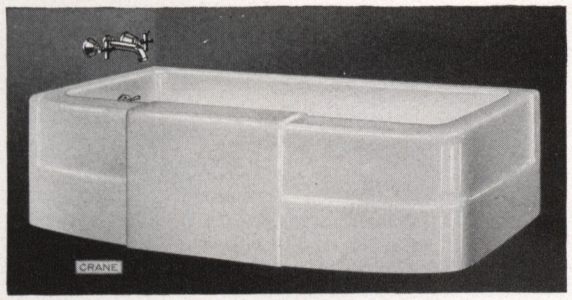
Fixture: (B26) ½-inch chromium plated ***Rival*** overrim supply fixture; 1½-inch ***Rival*** connected waste and overflow.

		5-foot	5½-foot
Shipping weight, approx.	**Pounds**	515	615

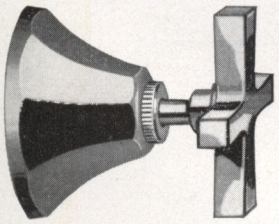
(If with **C 33581-E,** 1½-inch ***Accesso*** waste, specify **B27**)

Nominal sizes	**Feet**	5	5½
Length, overall	**Inches**	60¾	66¾
Width, overall	**Inches**	32½	32½
Depth, inside	**Inches**	17	17

Neuvogue baths are furnished regular or acid-resisting white or acid-resisting colored enamel.

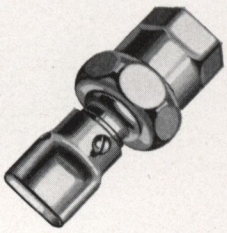


C 3225-LB26
(L) Left hand corner, left hand outlet. (Illustrated)
C 3225-RB26
(R) Right hand corner, right hand outlet.

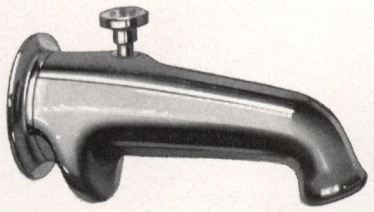


The new Crane Type "B" valve trimmings. Attractive indexed square arm metal cross handle with a new octagonal metal escutcheon in keeping with the latest trends. Sparkling, easily cleaned chromium plated finish.





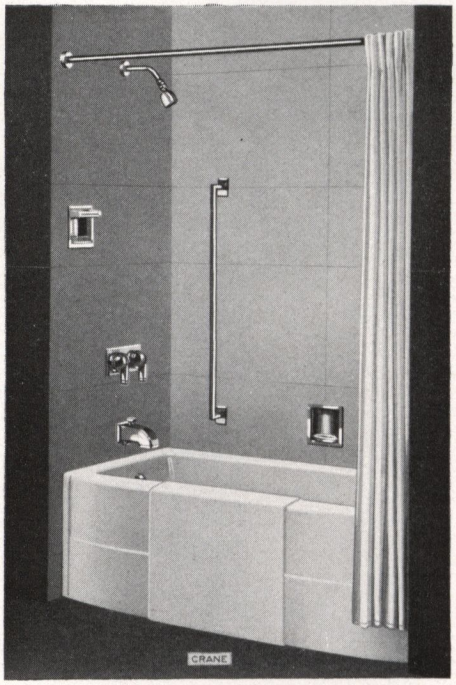
The ***Economy*** shower head is a remarkable advance in shower head design. It delivers a soothing ***aerated*** shower with a great saving of water, as all the water is directed at the bather. Adjustable ball joint, adjustable shower stream and easy cleaning are but a few of its features.



The ***Deviator*** spout eliminates those exasperating, unexpected showers. Water must be flowing from the spout before the shower can be operated. Lifting the button directs water to the shower—pushing it down directs water to the spout. When the bath is over, the shower is automatically disconnected.

"NEUVOGUE" PORCELAIN ENAMELED *CAST-IRON* RECESS BATHS

(PATENTED)



C 3240-LV95
(L) Left hand outlet (Illustrated).
C 3240-RV95
(R) Right hand outlet.

C 3240-LV95 or C 3240-RV95

Bath: ***Neuvogue*** enameled recess apron bath with flat contour bottom and center panel seat.

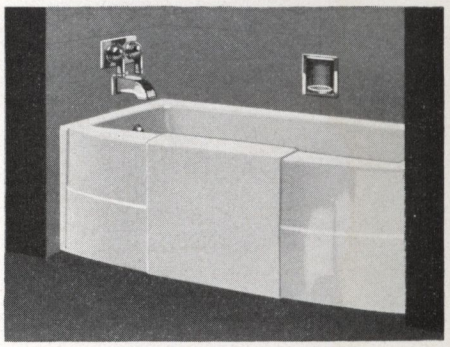
Fixture (V95): C 3851, ½-inch chromium plated ***Neuvogue*** concealed panel pattern overrim bath and shower fixture with ***Futura*** trimmings, renewable seats, lever handles, square type ***Deviator*** spout with escutcheon and shower head with adjustable ball joint; **C 33582** 1½-inch chromium plated ***Neuvogue-Accesso*** pop-up waste and overflow.

Curtain Rod: C 4965, 62-inch chromium plated ***Neuvogue*** recess pattern curtain rod with wall flanges; **C 4985,** ***Neuvogue*** hold back hook.

Curtain: 8-ounce white duck shower curtain with concealed hangers.

		5 Foot	5½ Foot
Shipping weight, approx.	**Pounds**	500	570

Note: A 2-inch ***Neuvogue-Accesso*** pop-up waste and overflow can be furnished if required.



C 3240-LV33
(L) Left hand outlet (Illustrated.)
C 3240-RV33
(R) Right hand outlet.

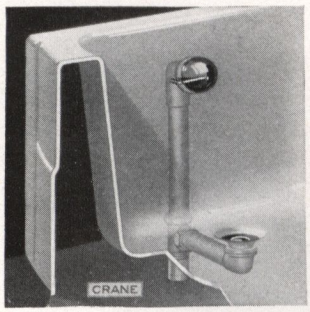
C 3240-LV33 or C 3240-RV33

Bath: ***Neuvogue*** enameled recess apron bath with flat contour bottom and center panel seat.

Fixture (V33): C 33500, ½-inch chromium plated ***Neuvogue*** concealed panel pattern overrim supply fixture with ***Futura*** trimmings, renewable seats, lever handles and square type spout with escutcheon; **C 33582,** 1½-inch chromium plated ***Neuvogue-Accesso*** pop-up waste and overflow.

		5 Foot	5½ Foot
Shipping weight, approx.	**Pounds**	480	550

Note: A 2-inch ***Neuvogue-Accesso*** pop-up waste and overflow can be furnished if required.



C 33582

Dimensions

Nominal size	**Feet**	5	5½
Length overall	**Inches**	60	66
Width overall	**Inches**	32½	32½
Depth inside	**Inches**	17	17

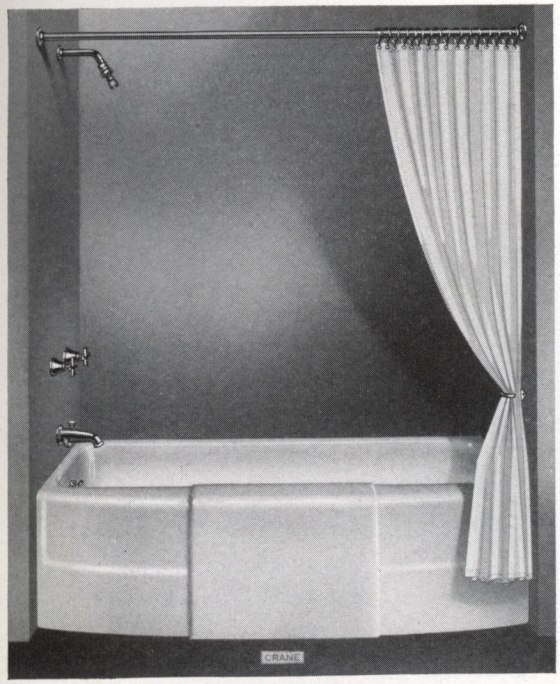
The design of the ***Neuvogue-Accesso*** pop-up waste and overflow reveals the same treatment as carried in the balance of this outstanding line. A flip of the lever handle raises or lowers the waste plug. The construction features are the same as those embodied in the patented ***Accesso*** waste (refer to page 22-2). All inside working parts are easily removable for cleaning. The overflow opening is not visible, but sufficient space is maintained in back of the handle base to permit full overflow area. Furnished in 1½ or 2-inch size.

Neuvogue baths can be furnished with regular or acid-resisting enamel in white or color.—See Crane color chart, page III.

For ***Neuvogue*** lavatories see pages 1-C and 1-D.

For ***Neuvogue*** closet see page 39-1.

"NEUVOGUE" PORCELAIN ENAMELED CAST-IRON RECESS BATHS
(PATENTED)



C 3240-LB91
Left hand outlet. (Illustrated)
C 3240-RB91
Right hand outlet.

C 3240-LB91 or C 3240-RB91

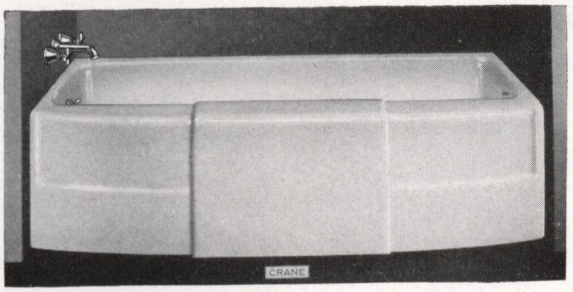
Bath: ***"Neuvogue"*** enameled recess apron bath with flat contour bottom and center panel seat.

Fixture: (**B91**) ½-inch chromium plated ***Rival*** bath and shower fixture with ***Deviator automatic*** spout, ***Economy*** shower head with ball joint; 1½-inch ***Accesso*** pop-up waste and overflow.

Curtain Rod: 1-inch O. D. chromium plated straight curtain rod.

Curtain: 8-ounce white duck curtain with chromium plated grommets and snap hooks, and hold-back hook.

		5-foot	5½-foot
Shipping weight, approx.	**Pounds**	490	560



C 3240-LB26
Left hand outlet. (Illustrated)
C 3240-RB26
Right hand outlet.

C 3240-LB26 or C 3240-RB26

Bath: ***Neuvogue*** enameled recess apron bath with flat contour bottom and center panel seat.

Fixture: (**B26**) ½-inch chromium plated ***Rival*** overrim supply fixture; 1½-inch ***Rival*** connected waste and overflow.

		5-foot	5½-foot
Shipping weight, approx.	**Pounds**	475	545

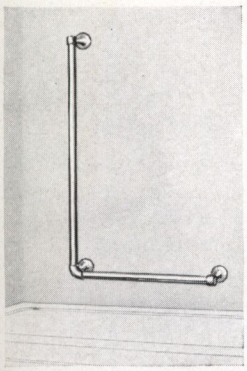
(If with **C 33581-E** 1½-inch ***Accesso*** waste specify **B-27**)

DIMENSIONS

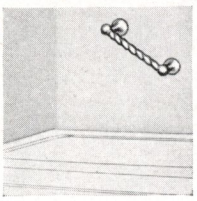
Nominal sizes	**Feet**	5	5½
Length, overall	**Inches**	60	66
Width, overall	**Inches**	32½	32½
Depth, inside	**Inches**	17	17

GRAB BARS

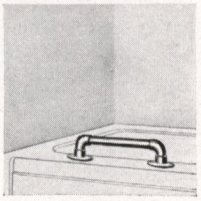
Neuvogue tubs are made with straight, low sides making it easier for the bather to enter or leave the bath, and with flattened bottom to provide firmer footing. Additional conveniences, such as the grab bars shown here enhance these features of the ***Neuvogue.*** For detailed descriptions, refer to page 81-2.



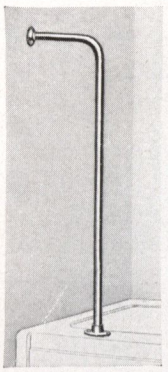
C 26082



C 26285



C 26297

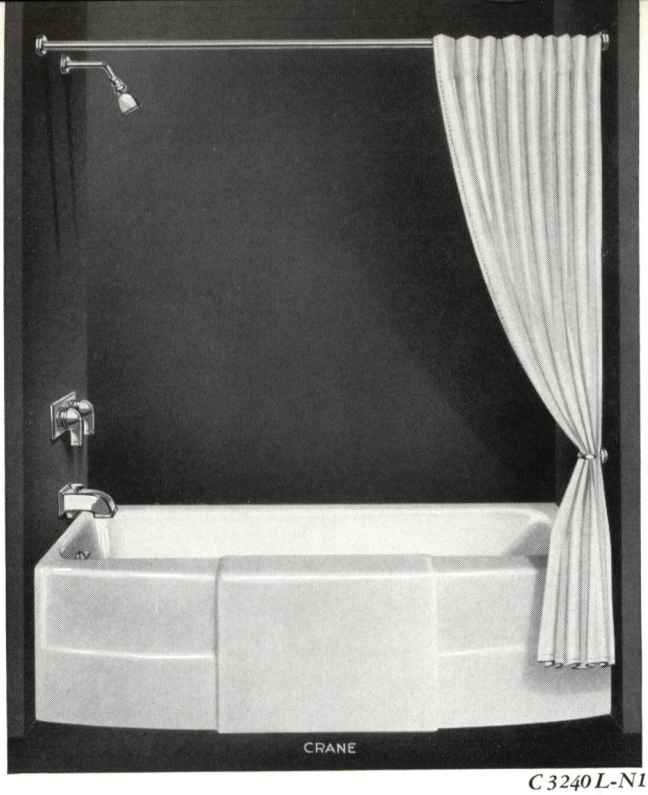


C 26296

CRANE RECESS BATHS

ENAMELED CAST IRON

Available in white regular enamel and white or colored acid resisting enamel.



C 3240 L-N1

NEUVOGUE

C 3240 L-N1 (Left hand cutlet)
C 3240 R-N1 (Right hand cutlet)
Patented

BATH: *Neuvogue* recess bath, enamel on cast iron.

TRIMMINGS: N1 *Neuvogue*, ½" bath and shower fixture, with *Deviator* automatic spout and water-saver shower head; 1½" *Accesso* pop-up waste and overflow.

CURTAIN: *Neuvogue* 1" O. D. recess rod; 8-ounce white duck curtain with concealed rings and hold-back hook.

All exposed metal chromium plated.

Overall Dimensions

Lengths.....5′ and 5½′
Width 32½" — Height 18" — Depth inside 17"

Neuvogue Features

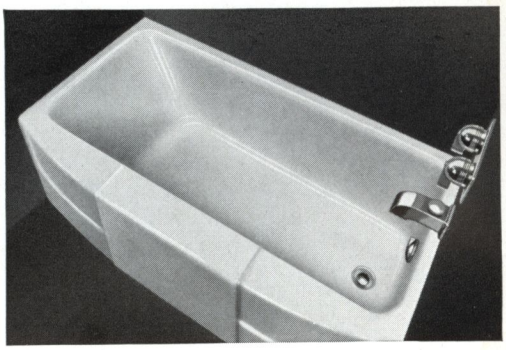
Ultra-modern lines and practical beauty for the bathroom of character.

Front apron of bath is bowed out to form a wide comfortable seat—handy for foot bathing and providing a safe way for stepping into or out of bath.

The flattened contour of the bottom minimizes the hazard of slipping.

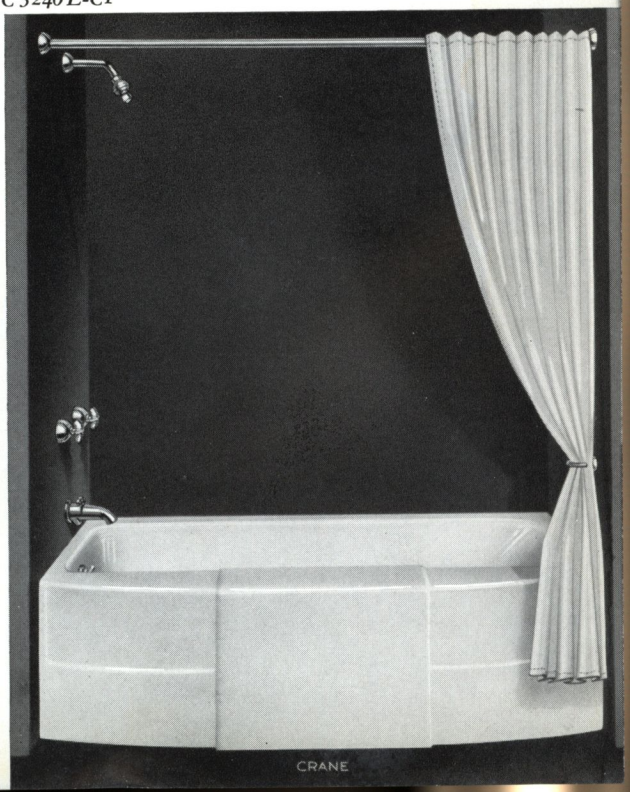
Slope end also has a flat contour which gives liberal freedom for the back and arms of bather, yet permits comfort in a reclining position.

A complete line of *Neuvogue* design fixtures and trimmings are available, enabling selection of a matched *Neuvogue* ensemble for the bathroom.



The broad seat, spacious bathing area, and wide flat surfaces assure safety, comfort and added convenience.

C 3240 L-C1



NEUVOGUE

C 3240 L-C1 (Left hand outlet)
C 3240 R-C1 (Right hand outlet)
Patented

BATH: *Neuvogue* recess bath, enamel on cast iron.

TRIMMINGS: C1 *Criterion*, ½" bath and shower fixture, with *Deviator* automatic spout and water-saver shower head; 1½" *Accesso* pop-up waste and overflow.

CURTAIN: C 4960 *Criterion* 1" O.D. recess rod; 8-ounce white duck curtain with concealed rings and C 4990 hold-back hook.

All exposed metal chromium plated.

Trimmings . . . . . Pages 20 to 22

CRANE CORNER BATHS

ENAMELED CAST IRON

Available in white regular enamel and white or colored acid resisting enamel.

CORONOVA

C 3285 L-C1 (Left hand corner)
C 3285 R-C1 (Right hand corner)
Patented

BATH: *Coronova* corner bath, enamel on cast iron.

TRIMMINGS: C1 *Criterion*, ½″ bath and shower fixture, with *Deviator* automatic spout and water-saver shower head; 1½″ *Accesso* pop-up waste and overflow.

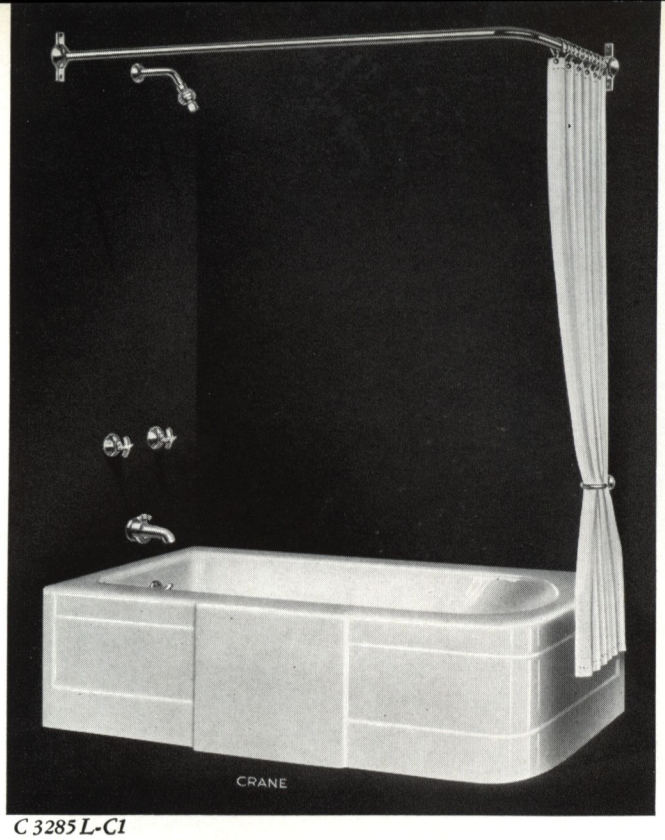
CURTAIN: C 4945-C *Criterion*, 1″ O.D. corner rod; with 8-ounce white duck curtain, snaps and hold-back hook.

All exposed metal chromium plated.

Overall Dimensions

Nominal sizes	4½′	5′	5½′	6′
Length	55¼″	60″	66″	72½″

Width 30½″ — Height 16″ — Depth inside 15″



C 3285 L-C1

Coronova Features

The newest in practical design, styled to today's tastes for added convenience, comfort and beauty in the modern bathroom.

Its panel front design lends itself well to modern architectural treatment and is echoed in the design of all new Crane fixtures to enable selection of a matched bathroom ensemble.

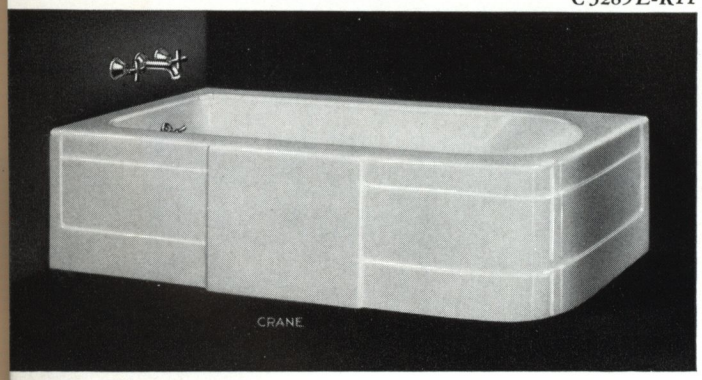
Wide and almost flat bottom reduces the danger of slipping; a gradual pitch to the outlet assures proper draining.

Low rim height, only 16″ from floor, makes stepping in or out both easy and safe—yet, nearly vertical sides accomplish a larger usable water capacity.

Wide front rim forms a comfortable seat, providing convenience and greater security when bathing or dressing.

A raised tiling ledge, ½″ high, prevents water from seeping between wall and tub, often causing serious damage.

C 3285 L-R11



CORONOVA

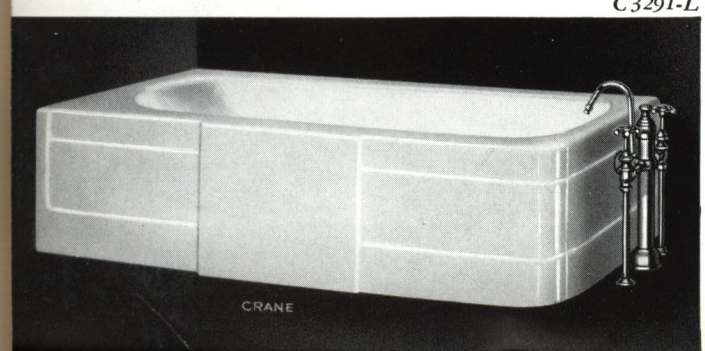
C 3285 L-R11 (Left hand corner)
C 3285 R-R11 (Right hand corner)
Patented

BATH: *Coronova* corner bath, enamel on cast iron.

TRIMMINGS: R11 *Rival*, ½″ overrim supply, with 1½″ *Accesso* pop-up waste and overflow.

All exposed metal chromium plated.

C 3291-L



CORONOVA

C 3291-L (L.H. corner—R.H. outlet)
C 3291-R (R.H. corner—L.H. outlet)

BATH: *Coronova* corner bath, enamel on cast iron.

TRIMMINGS: C 33-405, ½″ x 2″ x 1½″ exposed overrim gooseneck supply and standing waste.

All exposed metal chromium plated.

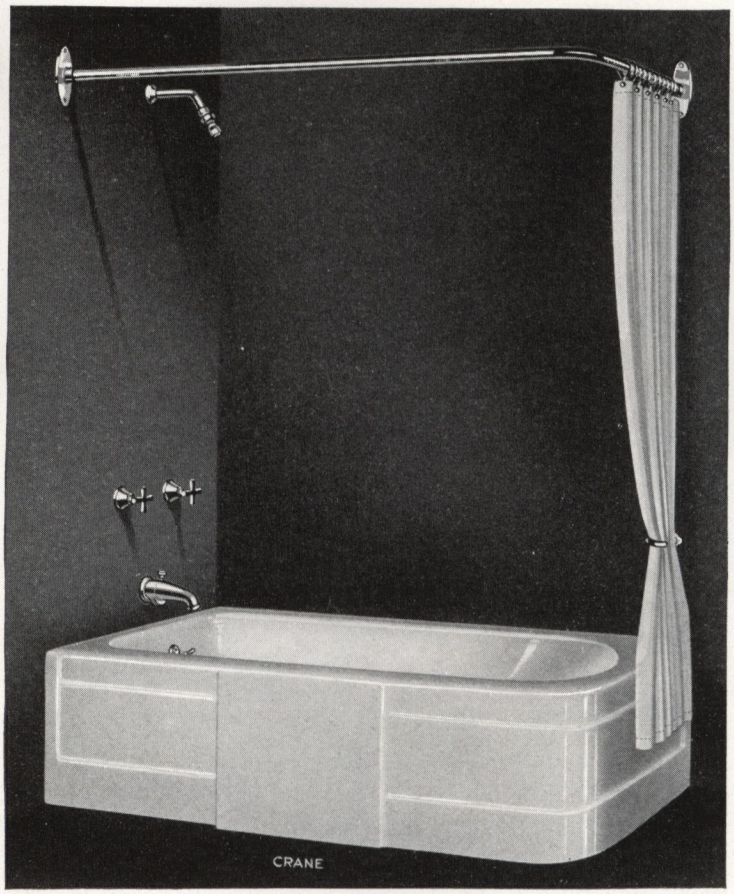
Sizes: 5′ and 5½′ only.

Trimmings . . . . . Pages 20 to 22

"CORONOVA" PORCELAIN ENAMELED CAST-IRON CORNER BATHS

The new Crane *Coronova* is the very latest in bathtub design. Broad flat rims, flatter bottom and low overall height, coupled with outstanding beauty are a few of the predominating features.

The *Coronova* is designed to build into the wall one inch. A half-inch tiling ledge prevents seepage. Neater and easier tile work is assured by flatter corners on the tubs.



C 3285-LB 91

(L) Left hand corner, left hand outlet. (Illustrated)

C 3285-RB 91

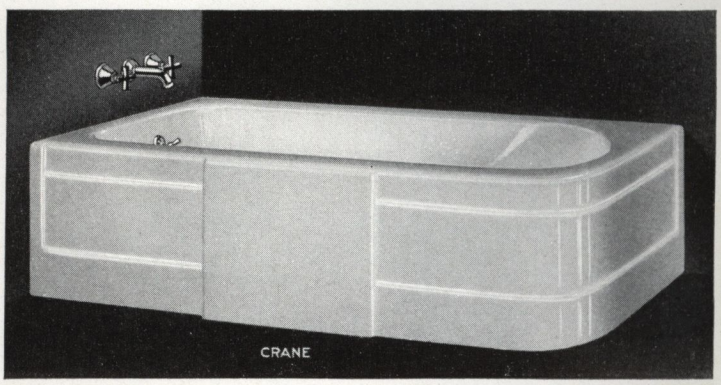
(R) Right hand corner, right hand outlet.

BATH: *Coronova* enameled corner bath.

TRIMMING (B91): ½-inch *Rival* bath and shower fixture with renewable seats, *Deviator* automatic spout and *Economy* shower head; 1½-inch *Accesso* pop-up waste and overflow.

CURTAIN: C 4950-C 8-ounce white duck curtain, 1-inch O.D. brass corner curtain rod with snap and hold-back hooks.

All exposed brass, chromium plated.



C 3285-LB 27

(L) Left hand corner. left hand outlet. (Illustrated)

C 3285-RB 27

(R) Right hand corner, right hand outlet.

BATH: *Coronova* enameled corner bath.

TRIMMING (B27): ½-inch *Rival* overrim supply fixture with renewable seats; 1½-inch *Accesso* pop-up waste and overflow.

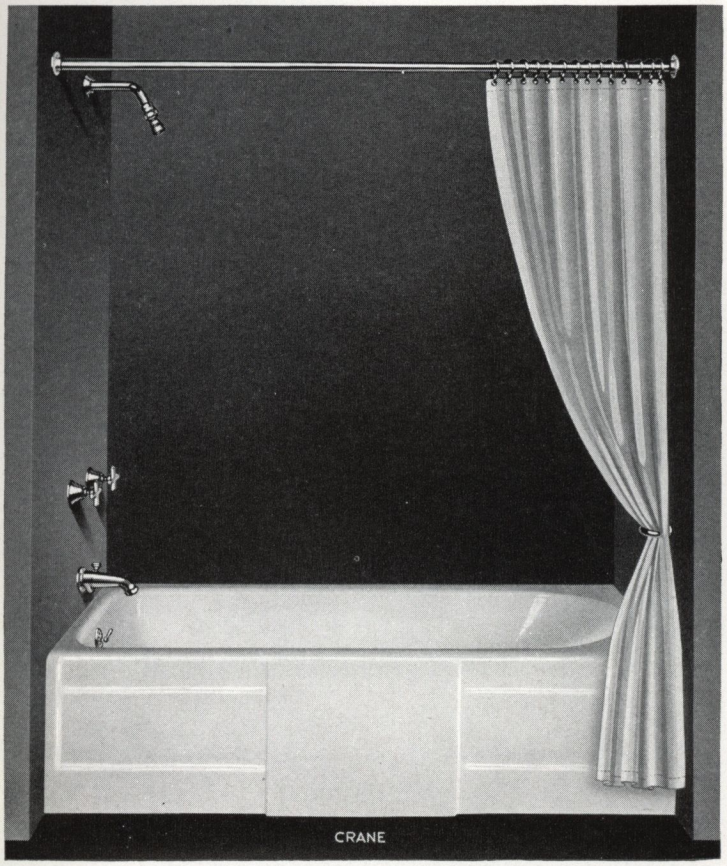
All exposed brass, chromium plated.

DIMENSIONS

Nominal sizes	**Feet**	5	5½
Length overall	**Inches**	60	66
Width overall	**Inches**	30½	30½
Height overall	**Inches**	16	16
Depth Inside	**Inches**	15	15
Shpg. wt., approx. (C 3285-B91)	**Pounds**	505	555
(C 3285-B27)	**Pounds**	475	525

For Bath Trimmings, See Pages 20 to 22

"CORONOVA" PORCELAIN ENAMELED *CAST-IRON* RECESS BATHS



The new Crane *Coronova* is the very latest in bathtub design. Broad flat rims, flatter bottom and low overall height, coupled with outstanding beauty are a few of the predominating features.

The *Coronova* is designed to build into the wall one inch. A half-inch tiling ledge prevents seepage. Neater and easier tile work is assured by flatter corners on the tubs.

C 3306-LB 91
(L) Left hand outlet. (Illustrated)
C 3306-RB 91
(R) Right hand outlet.

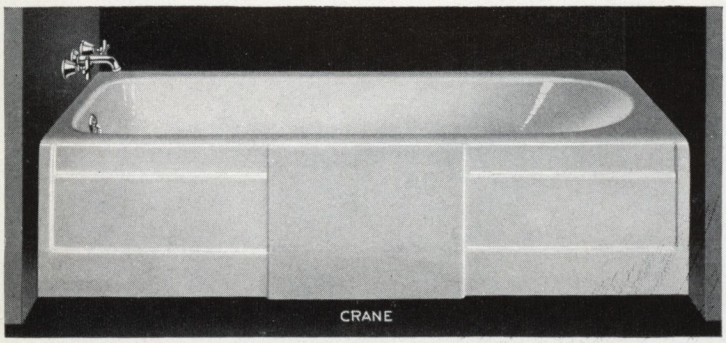
BATH: *Coronova* enameled recess bath.

TRIMMING (B91): ½-inch *Rival* bath and shower fixture with renewable seats, *Deviator* automatic spout and *Economy* shower head; 1½-inch *Accesso* pop-up waste and overflow.

CURTAIN: C 4962-C 8-ounce white duck curtain, 1-inch O.D. brass curtain rod with snap and hold-back hooks.

All exposed brass, chromium plated.

Length overall	**Feet**	5	5½
Shipping weight, approx.	**Pounds**	445	495

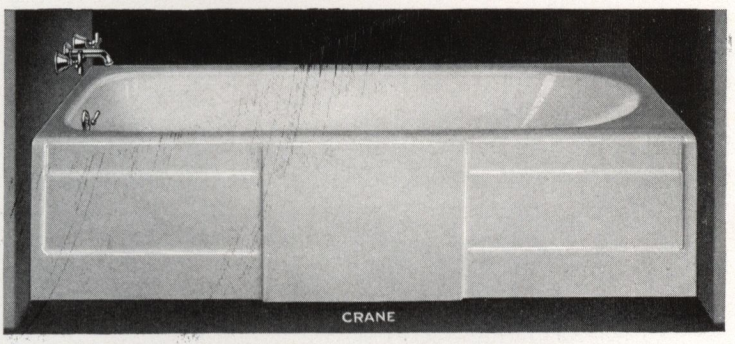


C 3306-LB 26
(L) Left hand outlet. (Illustrated)
C 3306-RB 26
(R) Right hand outlet.

BATH: *Coronova* enameled recess bath.

TRIMMING (B26): ½-inch *Rival* overrim supply fixture with renewable seats; 1½-inch *Rival* connected waste and overflow.

Length overall	**Feet**	5	5½
Shipping weight, approx.	**Pounds**	425	475



C 3306-LB 27
(L) Left hand outlet. (Illustrated)
C 3306-RB 27
(R) Right hand outlet.

BATH: *Coronova* enameled recess bath.

TRIMMING: (B27): ½-inch *Rival* overrim supply fixture with renewable seats; 1½-inch *Accesso* pop-up waste and overflow.

Length overall	**Feet**	5	5½
Shipping weight, approx.	**Pounds**	425	475

All exposed brass, chromium plated.

Width Overall.....30½ inches Height Overall.....16 inches Depth Inside.....15 inches

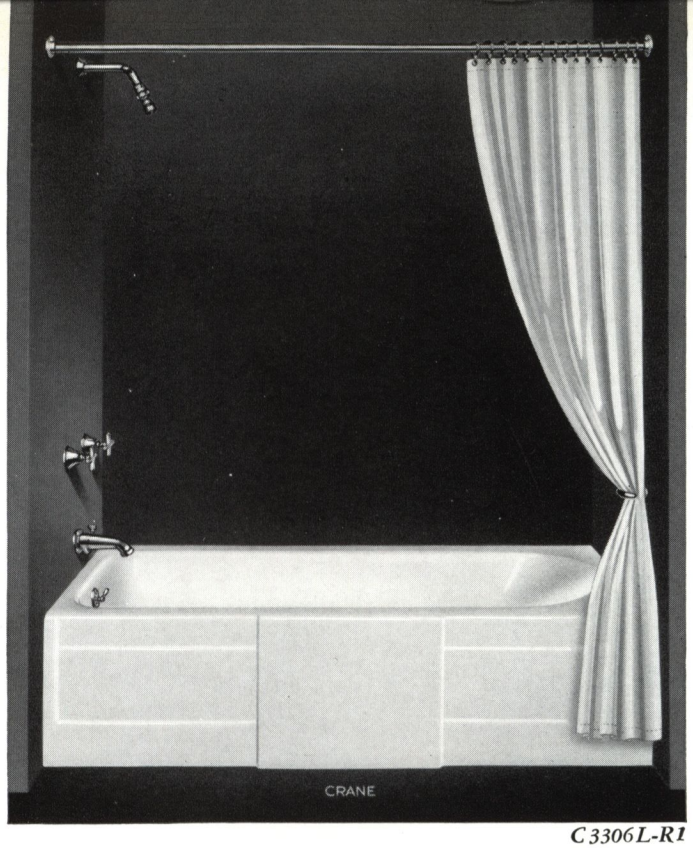
Coronova Baths are furnished in white regular, or acid-resisting enamel in white or color.

For Bath Trimmings, see pages 20 to 22.

CRANE RECESS BATHS

ENAMELED CAST IRON

Available in white regular enamel and white or colored acid resisting enamel.



C 3306 L-R1

CORONOVA

C 3306 L-R1 (Left hand outlet)
C 3306 R-R1 (Right hand outlet)
Patented

BATH: *Coronova* recess bath, enamel on cast iron.

TRIMMINGS: R1 *Rival*, ½″ bath and shower fixture, with *Deviator* automatic spout and *Economy* shower head; 1½″ *Accesso* pop-up waste and overflow.

CURTAIN: C 4962-C, 1″ O.D. recess rod; 8-ounce white duck curtain with snaps and hold-back hook.

All exposed metal chromium plated.

Overall Dimensions

Lengths.....4½′ 5′ 5½′ and 6′
Width 30½″ — Height 16″ — Depth inside 15″

Coronova Features

The newest in practical design, styled to today's tastes for added convenience, comfort and beauty in the modern bathroom.

Its panel front design lends itself well to modern architectural treatment and is echoed in the design of all new Crane fixtures to enable selection of a matched bathroom ensemble.

Wide and almost flat bottom reduces the danger of slipping; a gradual pitch to the outlet assures proper draining.

Low rim height, only 16″ from floor, makes stepping in or out both easy and safe—yet, nearly vertical sides accomplish a larger usable water capacity.

Wide front rim forms a comfortable seat, providing convenience and greater security when bathing or dressing.

A raised tiling ledge, ½″ high, prevents water from seeping between wall and tub, often causing serious damage.

CORONOVA

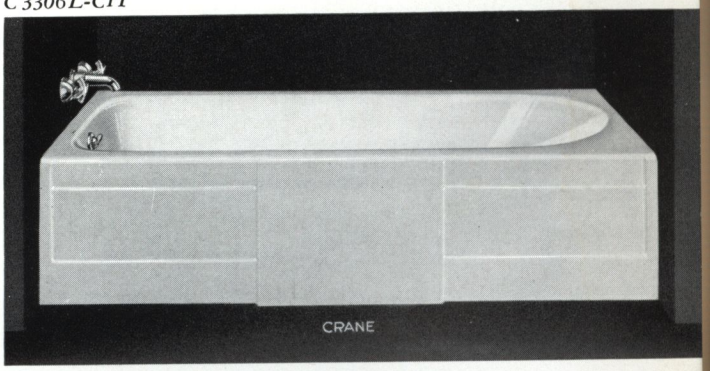
C 3306 L-C11 (Left hand outlet)
C 3306 R-C11 (Right hand outlet)
Patented

BATH: *Coronova* recess bath, enamel on cast iron.

TRIMMINGS: C11 *Criterion*, ½″ overrim supply, with 1½″ *Accesso* pop-up waste and overflow.

All exposed metal chromium plated.

C 3306 L-C11



CORONOVA

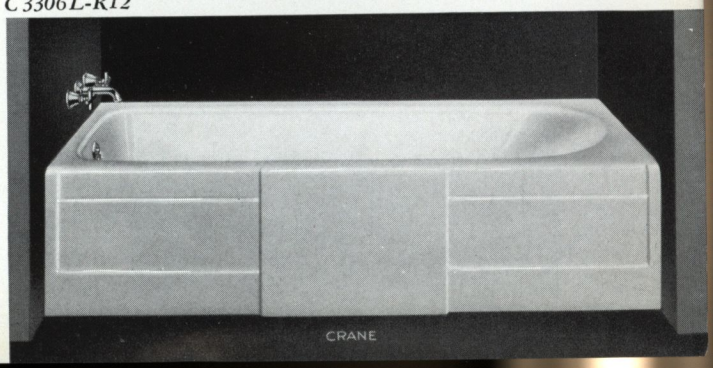
C 3306 L-R12 (Left hand cutlet)
C 3306 R-R12 (Right hand outlet)

BATH: *Coronova* recess bath, enamel on cast iron.

TRIMMINGS: R12 *Rival*, ½″ overrim supply, with 1½″ connected waste and overflow.

All exposed metal chromium plated.

C 3306 L-R12



Trimmings . . . . . Pages 20 to 22

CRANE RECESS BATHS

ENAMELED CAST IRON

Available in white regular enamel and white or colored acid resisting enamel.

TARNIA—C3330-C11
Patented

BATH: *Tarnia* reversible bath, enamel on cast iron.

TRIMMINGS: C11 *Criterion*, ½″ overrim supply, with 1½″ *Accesso* pop-up waste and overflow.

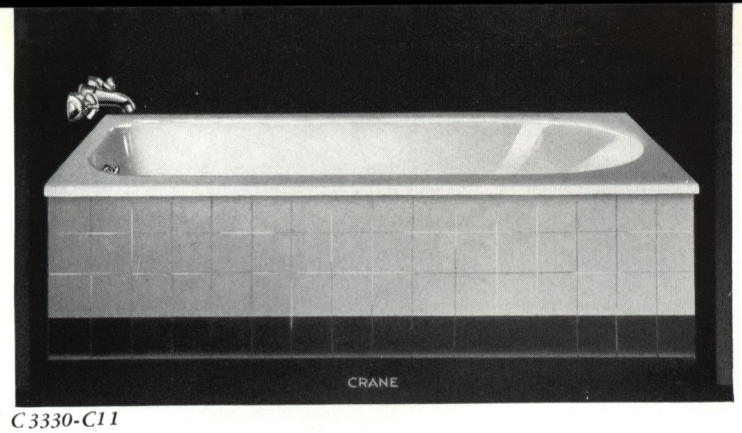
All exposed metal chromium plated.

NOTE: Tile panel not included.

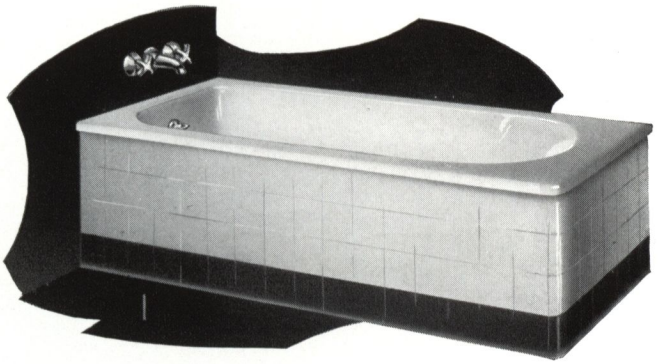
Overall Dimensions

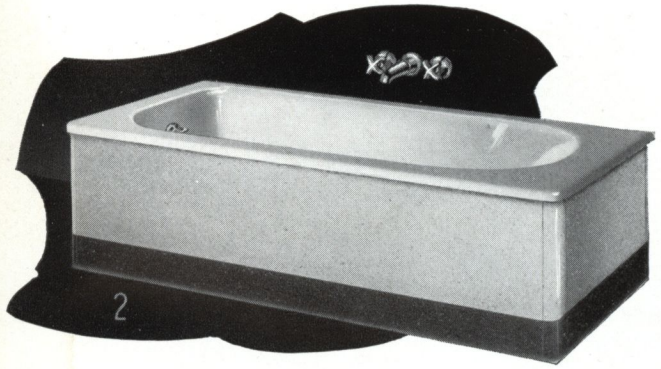
Nominal sizes	5′	5½′
Length	60¾″	67″

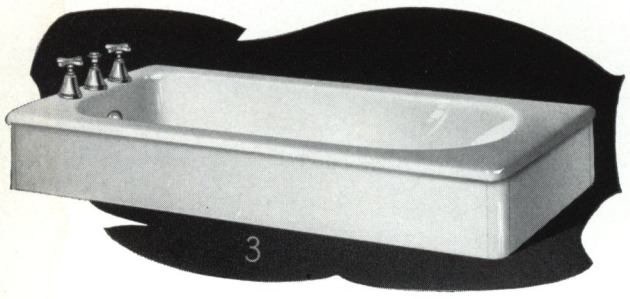
Width 32″—Depth inside 17″—Rim width 3¾″



C 3330-C11







TARNIA FEATURES

Especially designed for panelling with tile or other decorative materials, offering limitless possibilities for unusual architectural treatment.

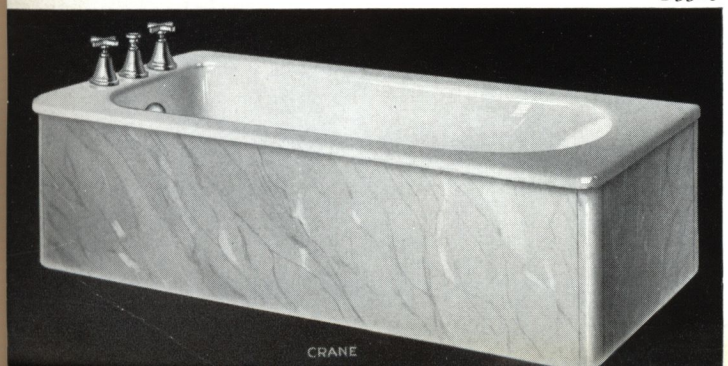
Some of the many ways in which the *Tarnia* may be installed are shown in this page as follows:

C 3330-C11 shows *recess installation* with front panel.

1. Shows *corner installation* with front panel and one end panel.
2. Shows *wall installation* with front and end panels.
3. Shows *submerged installation* with partial front and end panels.

C 3320 shows *free-standing installation*, panelled all around.

C 3320



TARNIA—C3320

BATH: *Tarnia* reversible bath, enamel on cast iron.

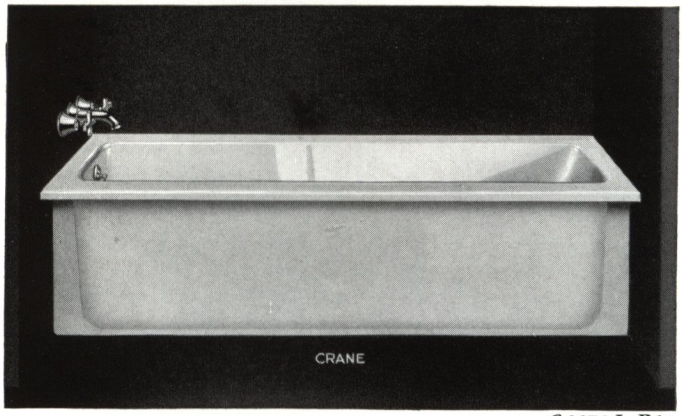
TRIMMINGS: C 33-416, ½″ x 2″ x 1½″ thru-rim supply and standing waste fixture.

All exposed metal chromium plated.

NOTE: Marble panel not included.

Trimmings . . . . . Pages 20 to 22

CRANE ROLL RIM BATHS



C 3370 L-R12

ENAMELED CAST IRON

Available in white
regular enamel only.

C 3370 L-R12 (Left hand outlet)
C 3370 R-R12 (Right hand outlet)

BATH: *Verna* recess bath, enameled inside, painted outside.

TRIMMINGS: R12 *Rival*, ½" overrim supply, with 1½" connected waste and overflow.

Sizes: 4½′, 5′ and 5½′ x 29¼" wide.

Width 29⅜" — Height 18" — Depth inside 17

DORIS—C 3400

BATH: *Doris* bath on base, enameled inside, painted outside, 3" roll rim

FAUCET: C 33-136 *Agilis*, ½" double faucet with gooseneck spout.

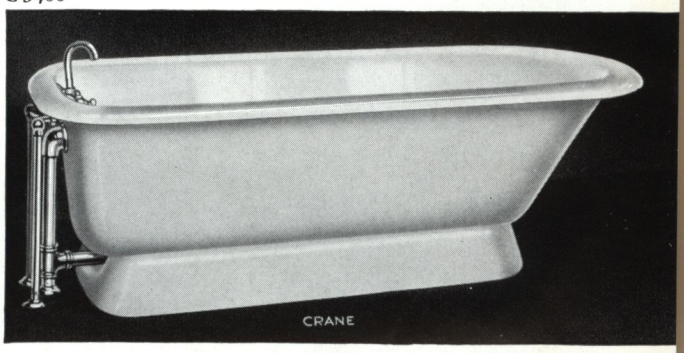
SUPPLIES: C 33-208, ½" annealed offset supplies.

WASTE: C 33-564, 1⅜" connected waste and overflow.

Sizes: 4′, 4½′, 5′ and 5½′ x 30" wide.

Width 30" — Height 22" — Depth inside 17"

C 3400



DORIS—C 3442

BATH: *Doris* bath on feet, enameled inside, painted outside, 3" roll rim.

FAUCET: C 33-136 *Agilis*, ½" double faucet with gooseneck spout.

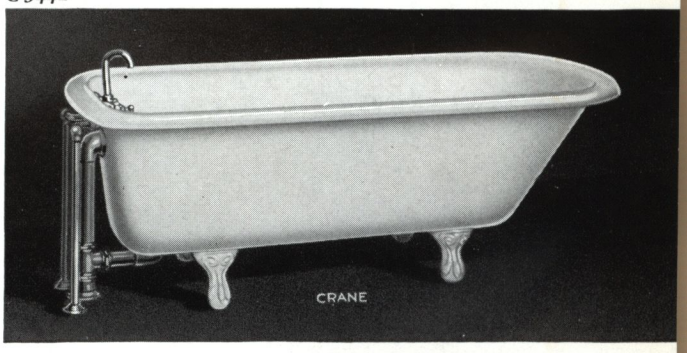
SUPPLIES: C 33-208, ½" annealed offset supplies.

WASTE: C 33-564, 1⅜" connected waste and overflow.

Sizes: 4′, 4½′, 5′ and 5½′ x 30" wide.

Width 30" — Height 22" — Depth inside 17"

C 3442



MEDIO—C 3464

BATH: *Medio* bath on feet, enameled inside, painted outside, 2" roll rim.

FAUCET: C 33-134 *Agilis*, ½" double faucet with shampoo connection.

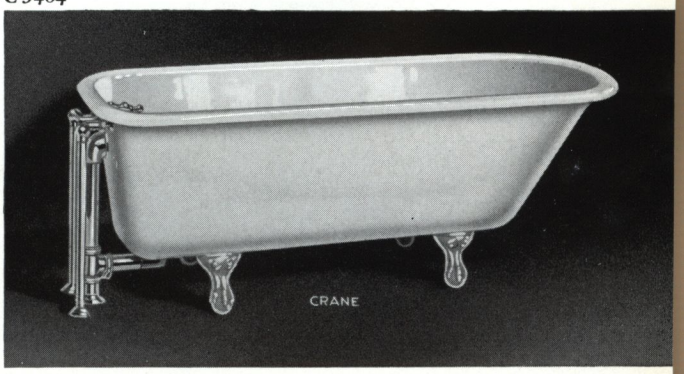
SUPPLIES: C 33-208, ½" annealed offset supplies.

WASTE: C 33-564, 1⅜" connected waste and overflow.

Sizes: 4½′, 5′ and 5½′ x 26" wide.

Width 26" — Height 22½" — Depth inside 17"

C 3464



Bath Faucets. . . . . Page 91

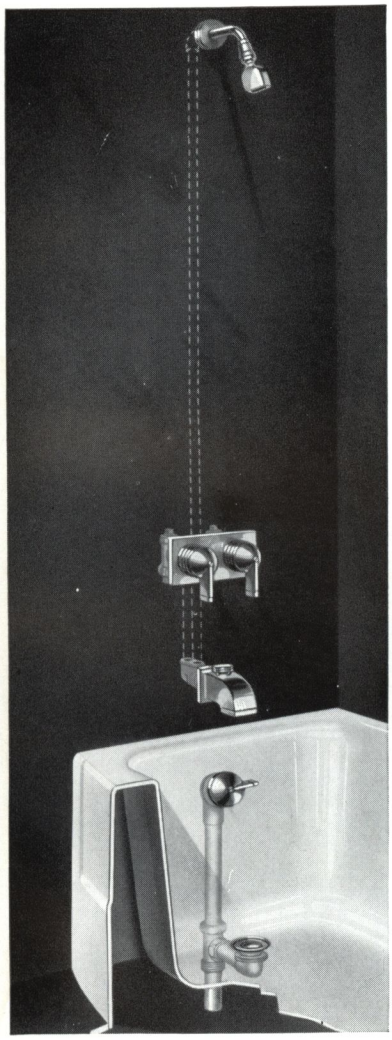
All exposed metal chromium plated.

CRANE BATH FIXTURE COMBINATIONS

To order a bath with trimmings different from the combinations shown on preceding pages, change SUFFIX designation.

Example: Customer selects bath combination C 3285 L-C1 from page 17-2, except with R2 instead of C1 trimmings. To order, specify C 3285 L-R2.

Trimmings on this page are for use with CRANE porcelain enameled cast iron baths.

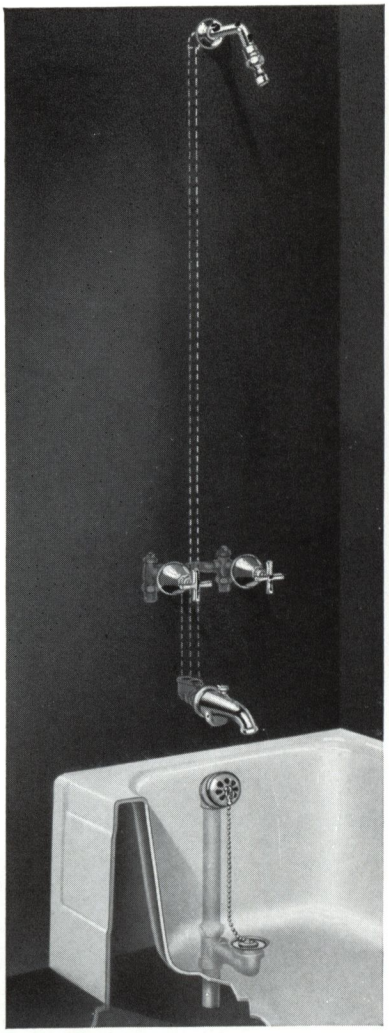


N1

NEUVOGUE pattern *Deviator* combination, with *Accesso* pop-up waste and overflow.

Fixture, C 3851, ½″.

Waste, C 33-582, 1½″.



R2

RIVAL pattern *Deviator* combination, with connected waste and overflow.

Fixture, C 3865, ½″.

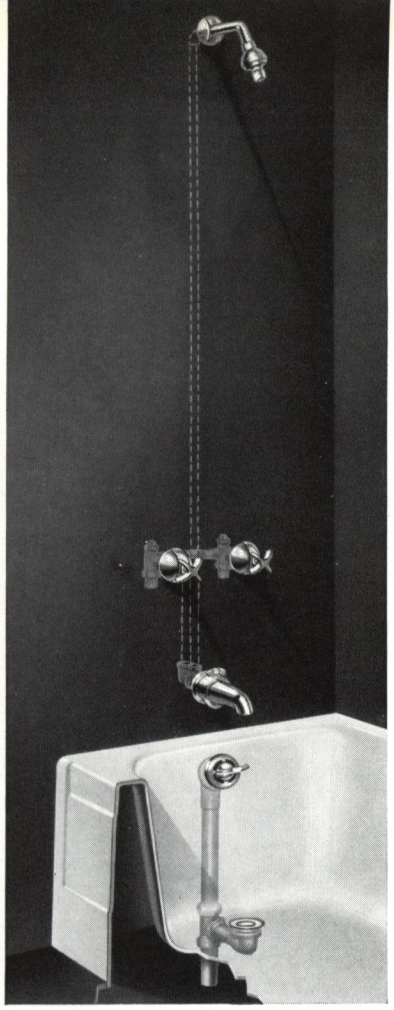
Waste, C 33-574, 1½″.

R1 (not illustrated)

RIVAL pattern *Deviator* combination, like R2 above except, with *Accesso* pop-up waste and overflow. (Shown at right).

Fixture, C 3865, ½″.

Waste, C 33-581-E, 1½″.



C1

CRITERION pattern *Deviator* combination, with *Accesso* pop-up waste and overflow.

Fixture, C 3885, ½″.

Waste, C 33-585, 1½″.

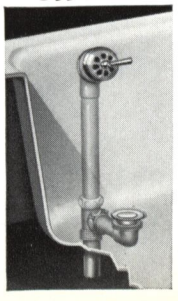
C2 (not illustrated)

CRITERION pattern *Deviator* combination, like C1 above except, with connected waste and overflow. (Shown below).

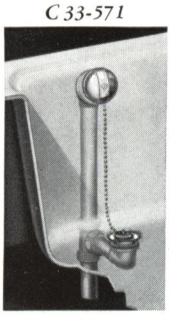
Fixture, C 3885, ½″.

Waste, C 33-571, 1½″.

Rival
C 33-581-E



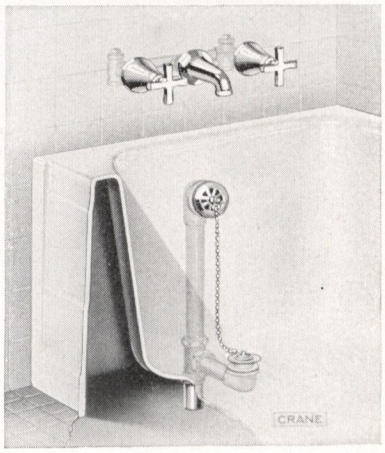
Criterion
C 33-571



All exposed parts chromium plated

FIXTURE COMBINATIONS FOR BATHS

Fixture: Crane ½-inch concealed compression overrim supply fixture with renewable seats.
Waste: 1½-inch concealed connected waste and overflow with chain and solid rubber stopper.



C 30

Indexed square arm metal cross handles and metal escutcheons.

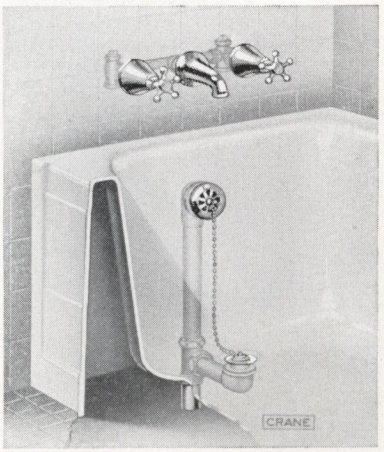
For back wall installation, specify **C31.**



B 26 (Rival)

Indexed square arm metal cross handles and octagonal metal escutcheons.

C 26 (Rival), same except with round pattern escutcheons.

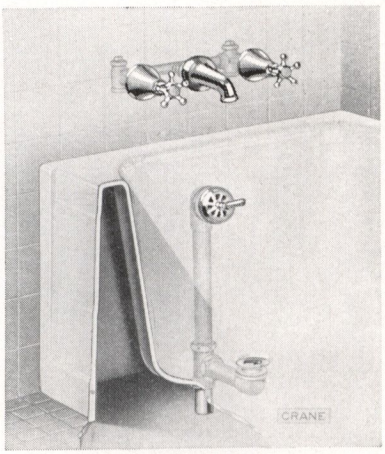


G 30

Five-ball all metal indexed handles and metal escutcheons.

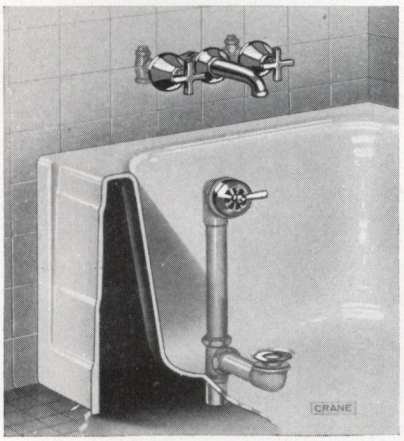
For back wall installation, specify **G31.**

Fixture: Crane ½-inch concealed compression overrim supply fixture with renewable seats.
Waste: Crane 1½-inch ***Accesso*** concealed pop-up waste and overflow.



G 32

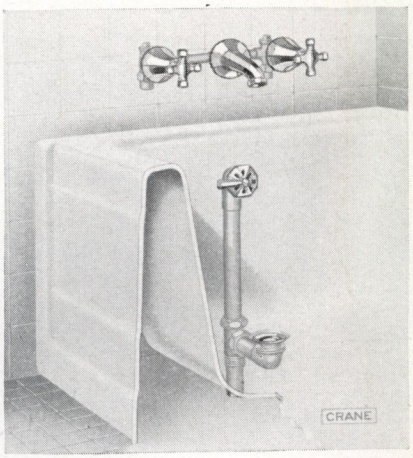
Five-ball all metal indexed handles and metal escutcheons.



B 27 (Rival)

Indexed square arm metal cross handles and octagonal metal escutcheons.

C 27 (Rival), same except with round pattern escutcheons.



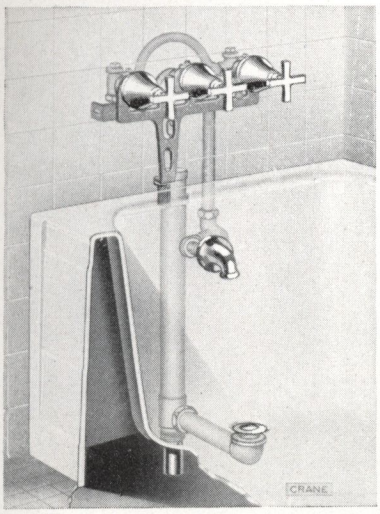
H 32

Design 40 Octagonal cross handles and escutcheons.

For various types of handles and escutcheons, refer to page 22—2.

FIXTURE COMBINATIONS FOR BATHS

Fixture: Crane ½x2x1½-inch concealed compression top nozzle supply and standing waste fixture with renewable seats.

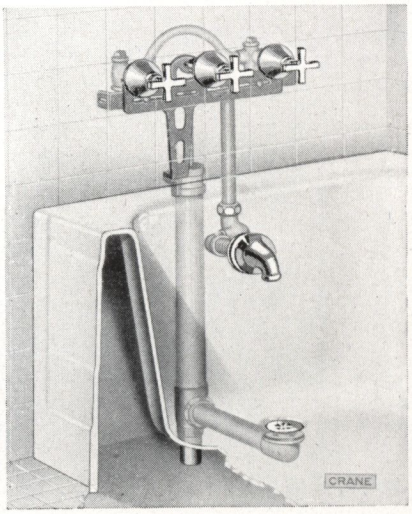


C 43

Indexed square arm metal cross handles and metal escutcheons. **(C 33466-E).**

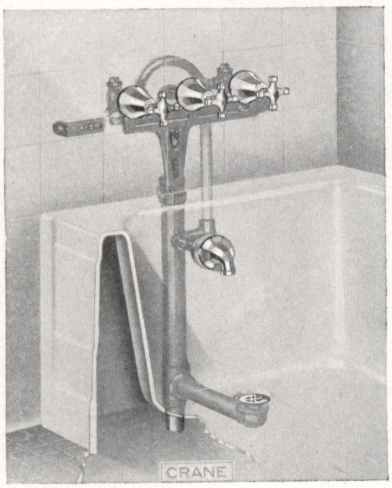
For back wall installation, specify **C 44.**

Also furnished in ¾x2½x2 inch size.



C 38 (Rival)

Indexed square arm metal cross handles and metal escutcheons. **(C 33426).**



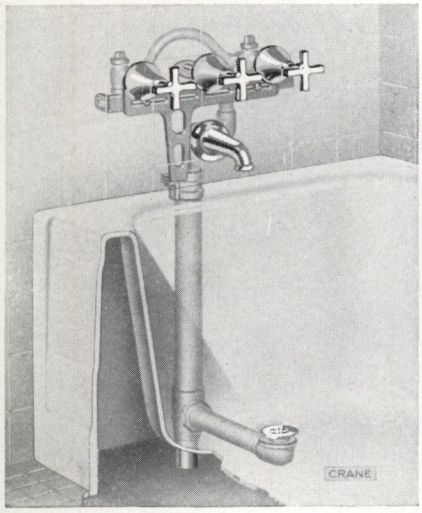
H 43

Design 40 octagonal cross handles, escutcheons and nozzle. **(C 33456-E).**

For back wall installation, specify **H 44.**

Also furnished in ¾x2½x2 inch size.

Fixture: Crane ½x2x1½-inch concealed compression overrim supply and standing waste fixture with renewable seats.

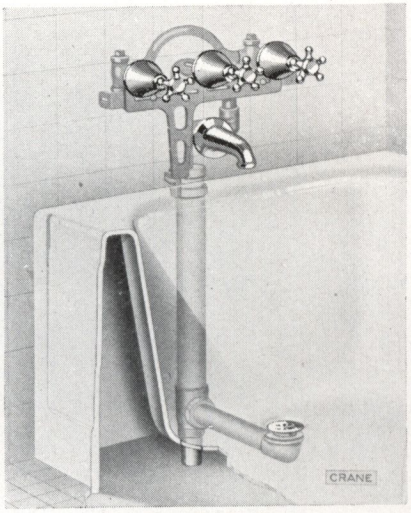


C 46

Indexed square arm metal cross handles and metal escutcheons. **(C 33476-E).**

For back wall installation, specify **C 47.**

Also furnished in ¾x2½x2 inch size.

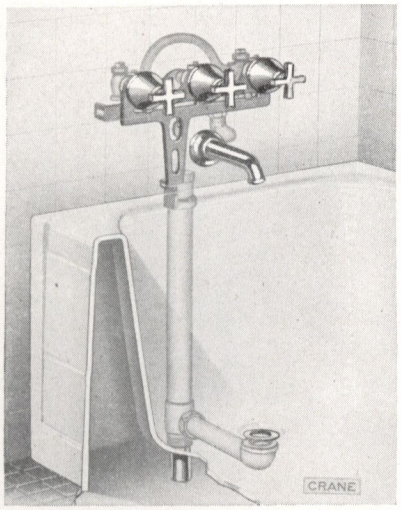


G 46

Five ball all metal indexed handles and metal escutcheons. **(C 33476-E).**

For back wall installation, specify **G 47.**

Also furnished in ¾x2½x2 inch size.



C 49 (Rival)

Indexed square arm metal cross handles and metal escutcheons. **(C 33495).**

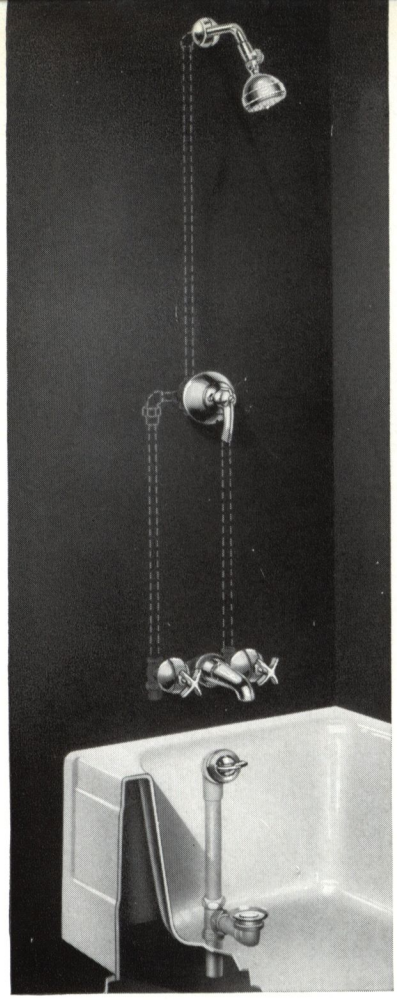
For various types of handles and escutcheons, refer to page 22—2.

CRANE BATH FIXTURE COMBINATIONS

To order a bath with trimmings different from the combinations shown on preceding pages, change SUFFIX designation.

Example: Customer selects bath combination C 3190 L-N1 from page 16-1, except with C5 instead of N1 trimmings. To order, specify C 3190 L-C5.

Trimmings on this page are for use with CRANE porcelain enameled cast iron baths.



C5

CRITERION pattern mixing valve shower and overrim fixture, with *Accesso* pop-up waste and overflow.

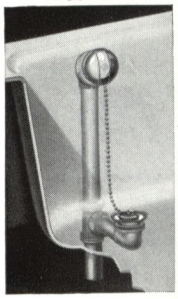
Shower, C 4150, ½″.
Fixture, C 33-502, ½″.
Waste, C 33-585, 1½″.

C6 (not illustrated)

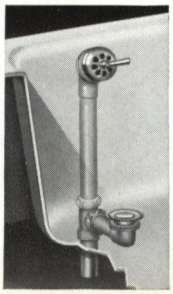
CRITERION pattern mixing valve shower and overrim fixture, like C5 above except, with connected waste and overflow. (Shown below.)

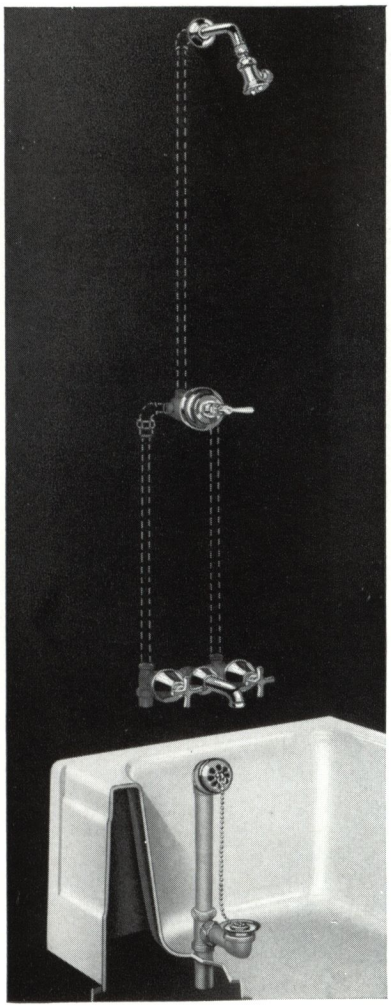
Shower, C 4150, ½″.
Fixture, C 33-502, ½″.
Waste, C 33-571, 1½″.

Criterion
C 33-571



Rival
C 33-581-E





R6

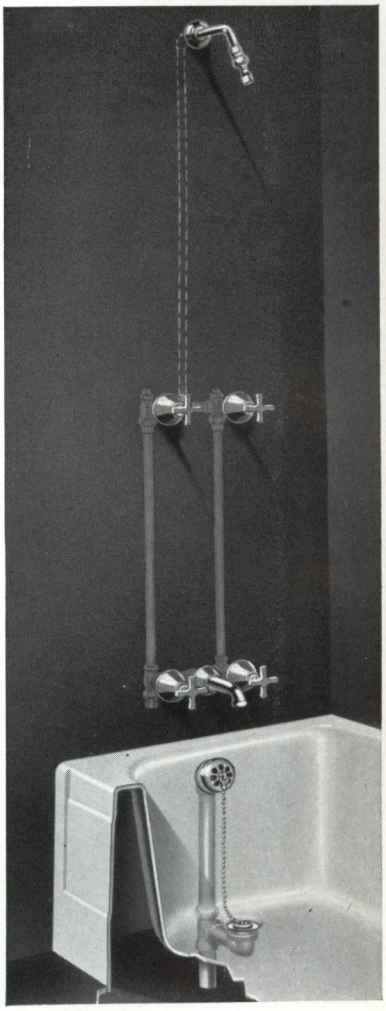
RIVAL pattern mixing valve shower and overrim fixture, with connected waste and overflow.

Shower, C 4393, ½″.
Fixture, C 33-537, ½″.
Waste, C 33-574, 1½″.

R5 (not illustrated)

RIVAL pattern mixing valve shower and overrim fixture, like R6 above except, with *Accesso* pop-up waste and overflow. (Shown at left.)

Shower, C 4393, ½″.
Fixture, C 33-537, ½″.
Waste, C 33-581-E, 1½″.



R9

RIVAL pattern four-valve overrim bath and shower combination, with connected waste and overflow.

Fixture, C 3845, ½″.
Waste, C 33-574, 1½″.

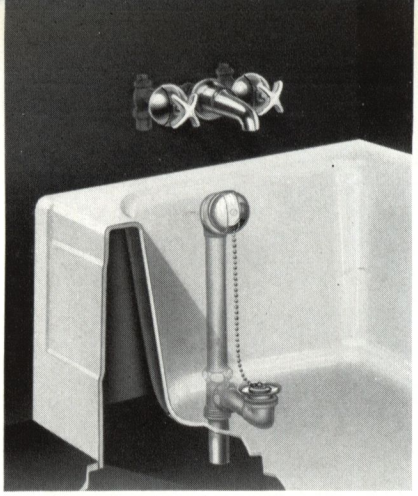
All exposed metal chromium plated

CRANE BATH FIXTURE COMBINATIONS

To order a bath with trimmings different from the combinations shown on preceding pages, change SUFFIX designation.

Example: Customer selects bath combination C 3306 L-R12 from page 18-1, except with N11 instead of R12 trimmings. To order, specify C 3306 L-N11.

Trimmings on this page are for use with CRANE porcelain enameled cast iron baths.



C 12

CRITERION pattern overrim fixture, with connected waste and overflow.

Fixture, C 33-502, ½".
Waste, C 33-571, 1½".

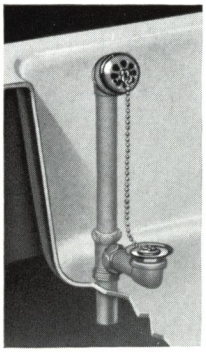
C 11 (not illustrated)

CRITERION pattern overrim fixture, like C12 above except, with *Accesso* pop-up waste and overflow. (Shown below.)

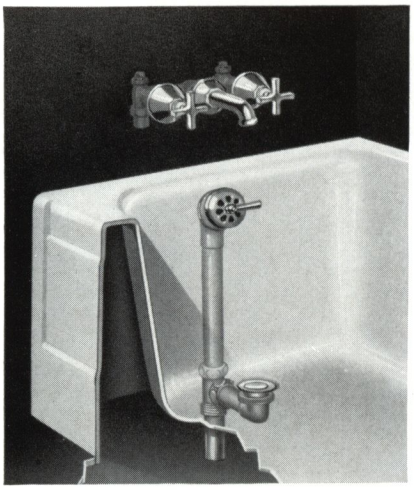
Fixture, C 33-502, ½".
Waste, C 33-585, 1½".

C 33-585





C 33-574



R 11

RIVAL pattern overrim fixture, with *Accesso* pop-up waste and overflow.

Fixture, C 33-537, ½".
Waste, C 33-581-E, 1½".



N 11

NEUVOGUE pattern overrim fixture, with *Accesso* pop-up waste and overflow.

Fixture, C 33-500, ½".
Waste, C 33-582, 1½".

R 12 (not illustrated)

RIVAL pattern overrim fixture, like R11 above except, with connected waste and overflow. (Shown at left above.)

Fixture, C 33-537, ½".
Waste, C 33-574, 1½".

R 15



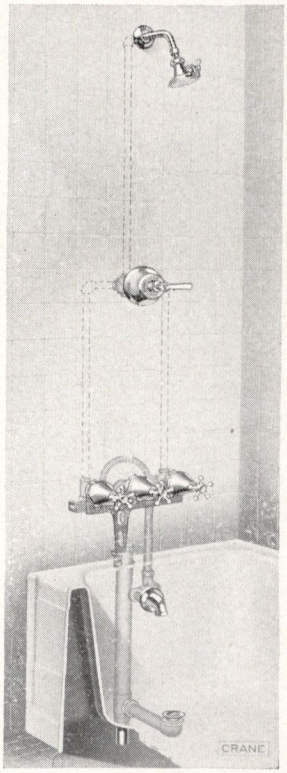
R 15
(shown at right)

RIVAL pattern overrim supply and standing waste fixture.

Fixture, C 33-495, ½ x 2 x 1½".

All exposed metal chromium plated

FIXTURE COMBINATIONS FOR BATHS



G 82

G 82

Fixture: C 4375-BA, ½-inch concealed mixing valve shower with renewable seats, 4-inch shower head with removable face, integral volume regulator and adjustable ball joint; **C 33456-E,** ½x2x1½-inch concealed top nozzle supply and standing waste fixture with renewable seats.

Can be furnished also in **Styles "C," "H" and "J."**

Can also be furnished with ¾-inch bath valves and 2-inch waste.

G 86

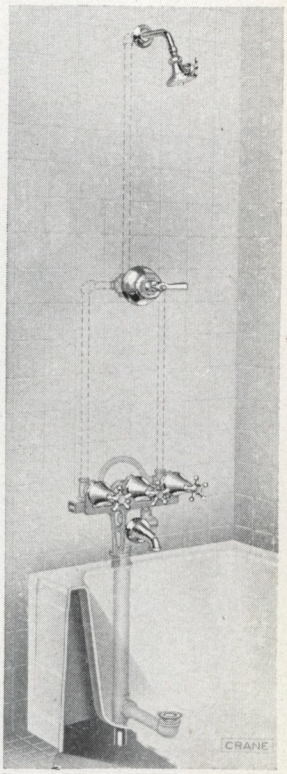
Fixture: C 4375-BA, ½-inch concealed mixing valve shower with renewable seats, 4-inch shower head with removable face, integral volume regulator and adjustable ball joint; **C 33476-E,** ½x2x1½-inch concealed overrim supply and standing waste fixture with renewable seats.

Can be furnished also in **Styles "C," "H," and "J."**

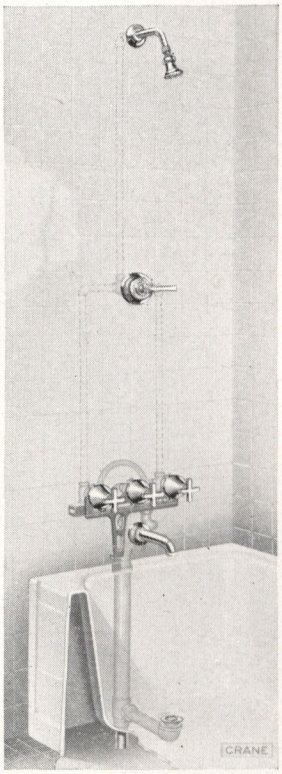
Can also be furnished with ¾-inch bath valves and 2-inch waste.

For illustrations of various styles, refer to page 22—2.

All exposed brass, chromium plated.



G 86



C 88

C 88

Fixture: C 4392-B, ½-inch ***Rival*** concealed mixing valve shower with renewable seats and ***Refreshor*** easy-clean shower head with adjustable ball joint; **C 33495,** ½x2x1½-inch ***Rival*** concealed overrim supply and standing waste fixture with renewable seats.

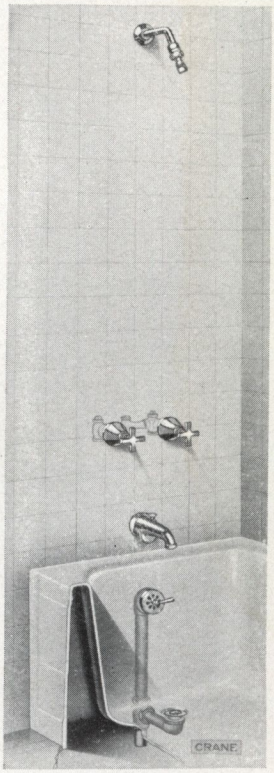
B 91

Fixture: C 3868, ½-inch ***Rival*** concealed bath and shower fixture with renewable seats; ***Deviator Automatic*** spout and ***Economy*** shower head.

Waste: C 33581-E, 1½-inch ***Accesso*** concealed pop-up waste and overflow.

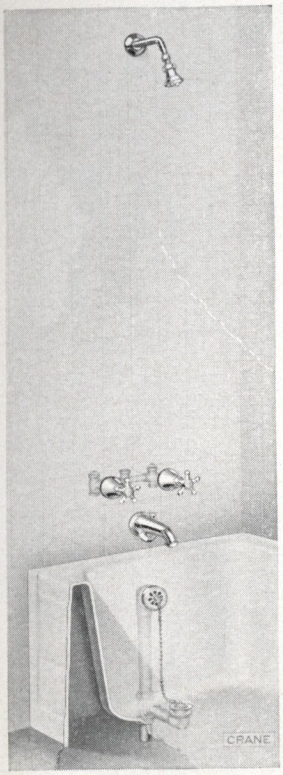
If with connected waste and overflow specify (**B 90**).

All exposed brass, chromium plated.



B 91

FIXTURE COMBINATIONS FOR BATHS



G 98

G 98

Fixture: C 3881-B, ½-inch concealed bath and shower fixture with renewable seats; ***Deviator Automatic*** spout and ***Refreshor*** Easy-Clean shower head with adjustable ball joint and bent arm to wall.

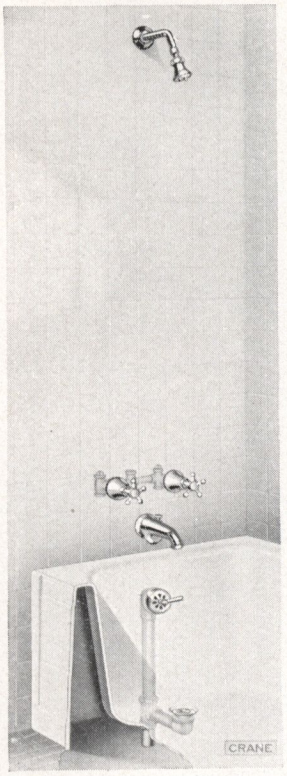
Waste: C 33572-E, 1½-inch concealed connected waste and overflow with beaded chain and solid rubber stopper.

G 99

Fixture: C 3881-B, ½-inch concealed bath and shower fixture with renewable seats; ***Deviator Automatic*** spout and ***Refreshor*** Easy-Clean shower head with adjustable ball joint and bent arm to wall.

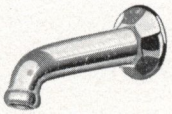
Waste: C 33581-E, 1½-inch ***Accesso*** concealed pop-up waste and overflow.

All exposed brass, chromium plated.

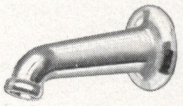


G 99

BATH TRIMMINGS



Rival Overrim
Octagonal escutcheon.



Regular Overrim
Plain Spout.



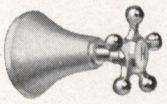
Design 40 Overrim
Octagonal Spout.



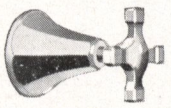
B
Square Arm All-Metal Indexed Handle and Octagonal Metal Escutcheon.



C
Square Arm All-Metal Indexed Handle and Metal Escutcheon.



G
Five-Ball All-Metal Indexed Handle and Metal Escutcheon.

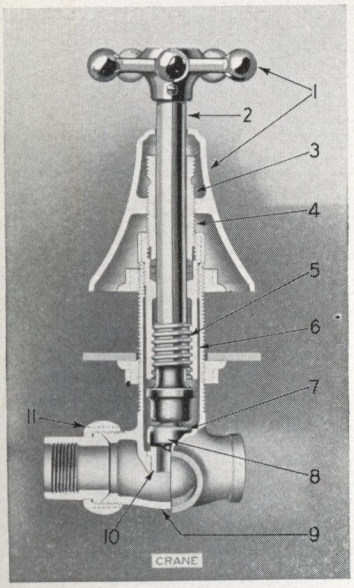


H
Design 40 Octagonal Cross Handle and Escutcheon.

DISTINCTIVE CRANE FIXTURES

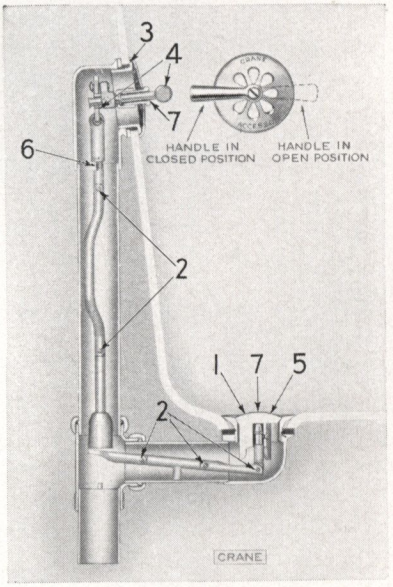
FEATURES

1. Plain trimmings interchangeable with ornamental trimmings.
2. Large, heavy stem, ½-inch diameter.
3. Adjustable for wall variation, (½ inch either way).
4. Adjustable stuffing box nut.
5. Long stem threads accurately machined, assure smooth, easy operation.
6. Stem threads in center piece permit replacement of entire operating unit without disturbing valve body.
7. Swivel disc permits closing valve tightly with minimum effort and reduces wear on disc.
8. Special encased composition disc, ideal for hot or cold water service.
9. Heavy body with large areaways throughout.
10. Seat renewable from face of wall.
11. Union connection for supplies.



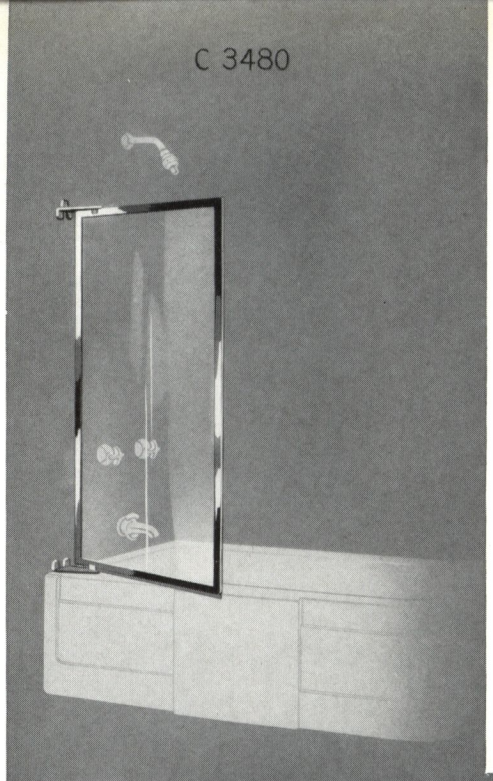
Concealed Bath and Shower Valve.

1. All parts of bath which the bathing water touches are visible, as plug closes water at outlet of bath. Scum left in waste by previous bather cannot contaminate water in bath.
2. Sturdy construction—Monel Metal pins in brass operating rods to resist corrosion and wear.
3. Screwed overflow connection once installed, need never be disturbed thereafter. The overflow can be roughed in and permanently assembled to bath. Operating parts can be inserted after all construction work is finished; thus all chance of marring them is eliminated.
4. Internal working parts cannot slip off handle stem.
5. Stepping on outlet stopper merely closes it and will not strain parts.
6. Threaded vertical rod allows for variation.
7. All operating parts are easily removed through waste and overflow openings—no pipe space or panels required.



Accesso Pop-Up Waste and Overflow.

CRANE BATHTUB ENCLOSURES



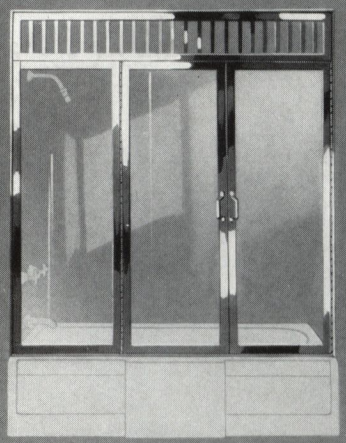
C 3480

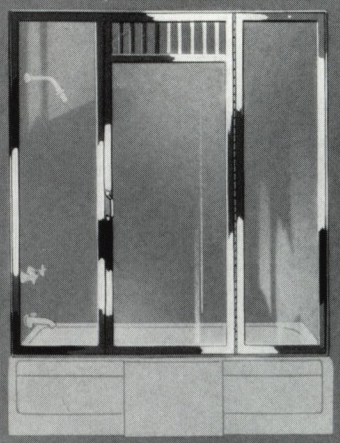
Sprayshield for recess or corner baths.

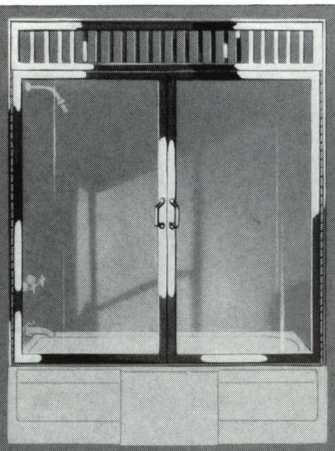
Clear crystal glass sprayshield with chromium plated metal frame, arranged to swing in or out, permitting full access for tub bathing and cleaning.

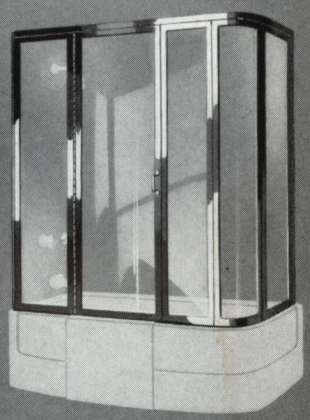
ENCLOSURES

Glass *Bath Tub Enclosures* add distinction and luxury to the modern bathroom. Their original cost is a final investment for permanence, beauty, comfort and health protection—in fact, an economy, for they eliminate shower curtain replacement and cleaning costs, and the nuisance of their upkeep. A practical work-saving convenience, keeping water within the tub where it belongs—no mopping the floor after every shower.







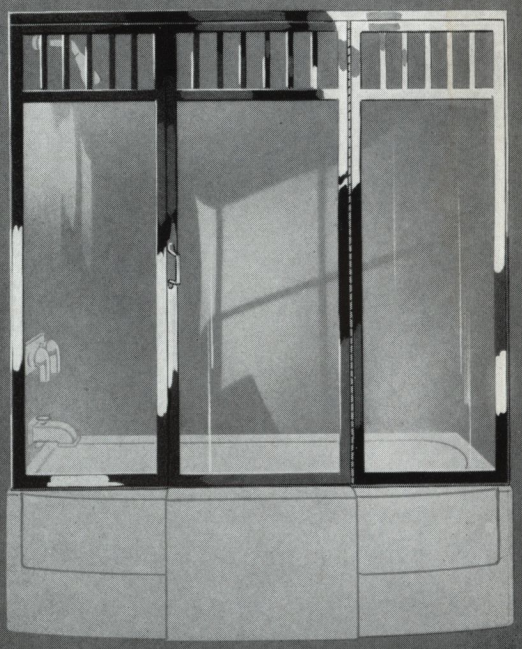


Only a few of the many style enclosures available for Crane tubs are shown on this page. They are regularly furnished with or without the grille illustrated, and with either clear or osbcure glass, however, many special pattern grilles or glass decorations are available. Prices and complete information on enclosures will be furnished on request.

C 3485

Full recess bath tub enclosure.

Clear crystal glass recess tub enclosure with fixed side panels and hinged center door, chromium plated metal frames and ventilating grille.



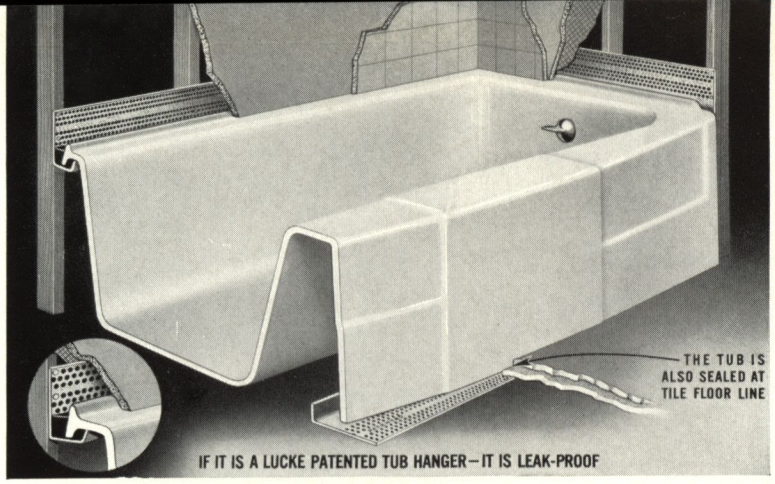
Enclosure for Neuvogue Receptor Bath . . . . . Page 16-1

CRANE TUB HANGERS

"LUCKE" LEAK-PROOF HANGER
Patented

C 3552

A perforated, galvanized steel trough, easily fastened to studding to form a perfect tub hanger and base for any wall covering. The base strip (when used) and the trough are filled with plastic water-proof cement to stop seepage, thus rendering all bath edges *leak-proof*. Directions for installing and enough cement to seal tub, are furnished with each hanger.

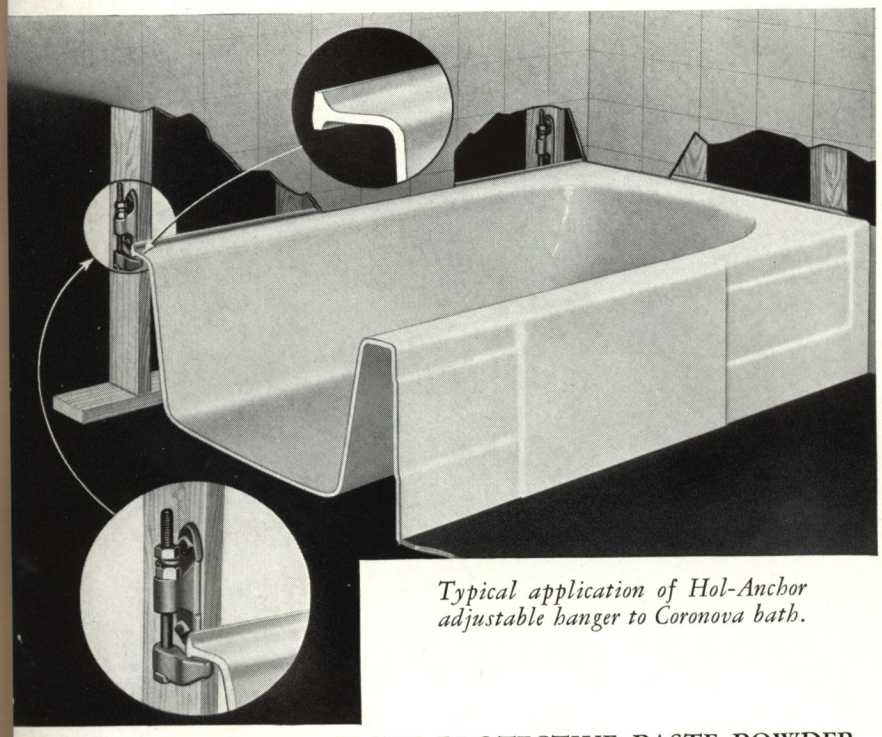


Application of Lucke hanger to Neuvogue bath.

Order hangers for Crane baths by number (see table below).
Hangers for other baths and for shower receptor are available.

For CRANE Enamel on Cast Iron		Apron Baths					Bath for Tiling	Roll-Rim Baths
*Tubs	With Base Strip - - - -	*Neuvogue*		*Coronova*		*Neuvogue Receptor*		
	Less Base Strip - - - - -		*Neuvogue*		*Coronova*		*Tarnia*	*Verna*
Installation	Full Recess- - - - - - -	No. 102	No. 104	No. 112	No. 113	No. 170	No. 300	No. 800
	Right Hand Corner - - -	No. 202	No. 204	No. 212	No. 214		No. 306	
	Left Hand Corner- - - -	No. 203	No. 207	No. 213	No. 215		No. 309	

**Adjustable for all sizes of Crane baths.*



Typical application of Hol-Anchor adjustable hanger to Coronova bath.

HOL-ANCHOR ADJUSTABLE HANGER

C 3553

An inexpensive but dependable method for securely installing any built-in bathtub. Settling, followed by water damage, is eliminated. Building false floors and nailing strips are unnecessary. Its adjustability entirely removes the necessity of rehandling the tub after once placing it in position, eliminating risk of damage which frequently occurs.

Each *Hol-Anchor* is capable of supporting 1000 pounds. Two hangers at back rim are sufficient for any apron tub, excepting those over 30″ wide, in which case one hanger at each corner is desirable.

CRANE PROTECTIVE PASTE POWDER

C 41-140

A powder which, when mixed with water, makes a satisfactory paste for use with ordinary newspaper to form a protective covering for enameled fixtures during building construction periods. Its use is strongly recommended as assurance for avoiding the responsibility of damage to enamelware, resulting from using unapproved compounds or paste mixtures in applying paper protectors. It is easily applied and removed without injuring or staining the brilliant gloss of Crane enamelware. (Directions furnished with each package.)

Furnished in cardboard containers, each holding 2 lbs., enough for one tub. Packed 12 containers to a case.



PRICE LIST APPLYING TO No. 675-C CATALOG

Prices given below will be helpful in approximating costs, or comparing the cost of one fixture with another. They do not include piping, labor, and other installation costs.

ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE White Regular Selection Chromium Plated
	PORCELAIN (ALL-CLAY) CORNER AND RECESS BATHS		
15-1	*C 2840—LG32 or RG32, *Corwith*	5′	$146.10
		5½′	155.60
	*C 2844—LG32 or RG32, *Corwith*	5′	123.80
		5½′	141.25
	*C 3000—LG30 or RG30, *Linovus*	5′	96.70
		5½′	112.95
	*C 3040—LG32 or RG32, *Linova*	5′	97.00
		5½′	113.25
	PORCELAIN (ALL-CLAY) AND VITREOUS CHINA BATHS—MISCELLANEOUS		
16-1	C 3090, *Juvenile*	44x20	159.65
	*C 3106—B, *Sitz*	30x26	101.50
	*C 3108—B, *Sitz*	30x26	114.50
	*C 3120—C, *Foot*	26x21	68.50

*(F. O. B. Trenton, N. J.)

PAGE	PORCELAIN ENAMELED *CAST-IRON* BATHS	Size	White Regular Enamel Chromium Plated	White A.R. Enamel Chromium Plated	Colored A.R. Enamel Chromium Plated
16-2	C 3225—V95 *Neuvogue*	5′	$106.70	$113.45	$124.65
		5½′	114.05	121.70	134.30
	C 3225—V33 *Neuvogue*	5′	85.50	92.25	103.50
		5½′	92.45	100.00	112.70
16-3	C 3225—B91 *Neuvogue*	5′	82.45	89.20	100.40
		5½′	89.95	97.55	110.20
	C 3225—B26 *Neuvogue*	5′	65.00	71.75	82.95
		5½′	71.95	79.50	98.45
	C 3225—B27 *Neuvogue*	5′	67.00	73.70	84.90
		5½′	73.90	81.50	94.15
16-4	C 3240—V95 *Neuvogue*	5′	94.50	100.55	110.70
		5½′	100.90	108.30	119.05
	C 3240—V33 *Neuvogue*	5′	80.20	86.25	96.40
		5½′	86.25	93.05	104.50
16-5	C 3240—B91 *Neuvogue*	5′	72.65	78.70	88.80
		5½′	79.00	85.80	97.20
	C 3240—B26 *Neuvogue*	5′	59.70	65.75	75.90
		5½′	65.75	72.55	83.95
	C 3240—B27 *Neuvogue*	5′	61.65	67.70	77.80
		5½′	67.70	74.50	85.90

PRICE LIST APPLYING TO No. 675-C CATALOG

Prices given below will be helpful in approximating costs, or comparing the cost of one fixture with another. They do not include piping, labor, and other installation costs.

ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

PAGE	PLATE NUMBER AND-DESCRIPTION	SIZE	PRICE		
			White Regular Enamel	White A.R. Enamel	Colored A.R. Enamel
	PORCELAIN ENAMELED *CAST-IRON* BATHS		Chromium Plated	Chromium Plated	Chromium Plated
17-1	C 3205—LH73 or RH73, *Marshall*	5½′	.....	$193.90*	$207.00*
	C 3220—LG51 or RG51, *Marshall*	5½′	.....	131.90	143.00
	*Less Curtain and Rod.				
	TRIMMINGS FOR *MARSHALL* BATHS				
17-1	C—51		$ 31.90	.....	.....
	G—51		31.90	.....	.....
	H—51		42.90	.....	.....
	K—51		App'l	.....	.....
	M—51		App'l	.....	.....
17-2	C 3284—LB91 or RB91, *Corwith*	4½′	75.50	81.40	91.15
		6′	116.00	126.90	137.70
	C 3284—LB27 or RB27, *Corwith*	4½′	60.00	66.00	75.65
		6′	100.00	111.00	121.70
	C 3284—LC38 or RC38, *Corwith*	4½′	64.25	72.25	79.90
		6′	104.25	115.15	125.95
	C 3290—L or R, *Corwith*	5′	69.25	75.15	84.90
		5½′	75.25	81.85	92.90
17-3	C 3285—LB91 or RB91, *Coronova*	5′	75.50	81.40	91.15
		5½′	82.00	88.65	99.65
	C 3285—LB27 or RB27, *Coronova*	5′	59.95	65.80	75.55
		5½′	65.95	72.55	83.55
17-4	C 3306—LB91 or RB91, *Coronova*	5′	66.30	71.65	80.40
		5½′	71.90	77.80	87.70
	C 3306—LB26 or RB26, *Coronova*	5′	53.40	58.70	67.45
		5½′	58.65	64.55	74.45
	C 3306—LB27 or RB27, *Coronova*	5′	55.30	60.65	69.40
		5½′	60.55	66.50	76.40
18-1	C 3308—LB91 or RB91, *Corwith*	4½′	62.70	67.55	75.70
		6′	104.50	114.45	124.45
	C 3308—LB26 or RB26, *Corwith*	4½′	50.25	55.15	63.25
		6′	90.80	100.75	110.75
	C 3308—LB27 or RB27, *Corwith*	4½′	52.20	57.05	65.20
		6′	92.75	102.70	112.70
18-2	C 3313—LB, or RB, *Tarnia*	5½′x36″	App'l		
	C 3314—LB, or RB, *Tarnia*	5½′x36″	Appl.		
	C 3320—G48, *Tarnia*	5′	75.50	80.25	88.15
		5½′	81.75	87.25	96.40
		5½′x36″	.....	126.30	136.15
		6′	100.20	108.00	115.80
	C 3336—G30, *Tarnia*	5′	57.40	62.15	70.00
		5½′	63.65	69.15	78.25
		5½′x36″	.....	108.20	118.00
		6′	82.05	89.90	97.70

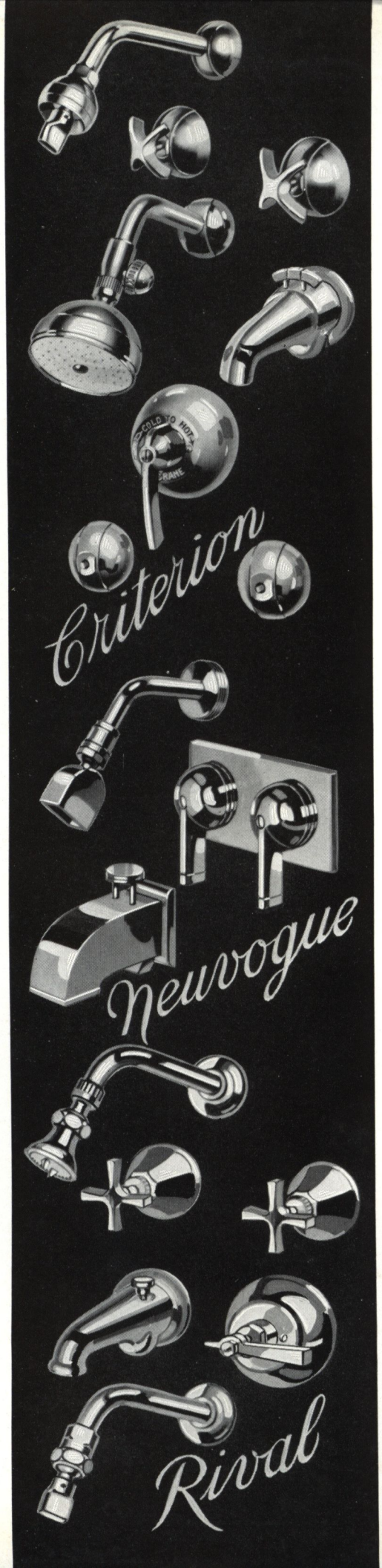
PRICE LIST APPLYING TO No. 675-C CATALOG

Prices given below will be helpful in approximating costs, or comparing the cost of one fixture with another. They do not include piping, labor, and other installation costs.

ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE White Reg. Enamel / Chrom. Plated
	PORCELAIN ENAMELED *CAST-IRON* BATHS		
19-1	C 3350—LG30 or RG30, *Carlton*	5′	$59.45
		5½′	64.75
	C 3360—LC31 or RC31, *Carlton*	5′	60.70
		5½′	66.00
	C 3370—LG32 or RG32, *Verna*	4½′	56.80
		5′	60.00
		5½′	65.25
	C 3370—LC30 or RC30, *Verna*	4½′	56.35
		5′	59.55
		5½′	64.80
19-2	C 3400—N60, *Doris*	4′	41.30
		4½′	37.30
		5′	40.40
		5½′	46.80
		6′	52.90
	C 3442—N60, *Doris*	4′	26.60
		4½′	26.60
		5′	29.70
		5½′	34.75
		6′	44.60
	C 3464—T62, *Medio*	4½′	25.00
		5′	28.15
		5½′	33.25
	FIXTURE COMBINATIONS FOR BATHS		
20-1	B 26 or C 26, *Rival*	½″	11.75
	B 27 or C 27, *Rival*	½″	13.90
	C 30	½″	20.15
	C 31	½″	21.40
	G 30	½″	20.15
	G 31	½″	21.40
	G 32	½″	20.40
	H 32, Design 40	½″	32.75
20-2	C 38, *Rival*	½″	18.95
	C 43	½″	28.30
		¾″	31.95
	C 44	½″	29.55
		¾″	33.25
	C 46	½″	28.30
		¾″	31.95
	C 47	½″	29.55
		¾″	33.25
	C 49, *Rival*	½″	18.95

PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE White Reg. Enamel / Chrom. Plated
	FIXTURE COMBINATIONS FOR BATHS —Continued		
20-2 (Contd.)	G 46	½″	$28.30
		¾″	31.95
	G 47	½″	29.55
		¾″	33.25
	N 34		7.90
	N 60		8.50
	P 53	½″	23.45
	P 54	½″	23.45
	T 62		7.00
	T 64		7.90
21-2	C 70	½″	44.50
	Style G	½″	44.50
	C 71	½″	37.75
	Style G	½″	37.75
	Style H	½″	65.00
	G 74	½″	34.00
	G 75	½″	34.30
	B 78	½″	21.05
22-1	G 82	½″	52.70
	Style C	½″	52.70
	Style H	½″	71.70
	G 86	½″	52.70
	Style C	½″	52.70
	Style H	½″	71.70
	C 88	½″	30.80
	B 90	½″	17.95
	B 91	½″	20.10
22-2	G 98	½″	24.20
	G 99	½″	24.50



CRANE QUALITY SHOWERS

The shower fixtures presented here-in, include styles and sizes to meet every requirement—every purse. There are bath supply and shower combinations, mixing valve showers, separate valve showers, and complete shower compartments. All are carefully designed and quality-built to provide lifelong satisfaction and low maintenance cost.

For quick reference the general contents comprising the Crane shower section are listed below.

BATH SUPPLY AND SHOWER FIXTURES – – – – – Pages 25-2
RECESSED SHOWERS – – – – – – – – – – – – – – – – – – 26-1
MIXING VALVE SHOWERS – – – – – – – – – – – – – – – 26-2
TWO VALVE SHOWERS – – – – – – – – – – – – – – – – – 27-1
ADDENDA SHOWERS – – – – – – – – – – – – – – – – – – 27-2
EXPOSED SHOWERS – – – – – – – – – – – – – – – – – – 28-1
SPECIAL SHOWERS – – – – – – – – – – – – – – – – – – 28-2
GLASS SHOWER DOORS AND COMPARTMENTS – – – – 29-1
CABINET SHOWERS – – – – – – – – – – – – – – – – 29-2 to 30-1
SHOWER RECEPTORS – – – – – – – – – – – – – – – – – 30-2
MIXING VALVES – – – – – – – – – – – – – – – – – – – 31-1
THERMOSTATIC MIXING VALVES – – – – – – – – – – 31-2
SHOWER TRIMMINGS – – – – – – – – – – – – – 32-1 to 34-1

Three Unusual Patterns

Crane shower trimmings are styled in three distinctive patterns—*Criterion*, *Neuvogue*, and *Rival*—each carefully developed to complement Crane modern fixture design.

CRITERION

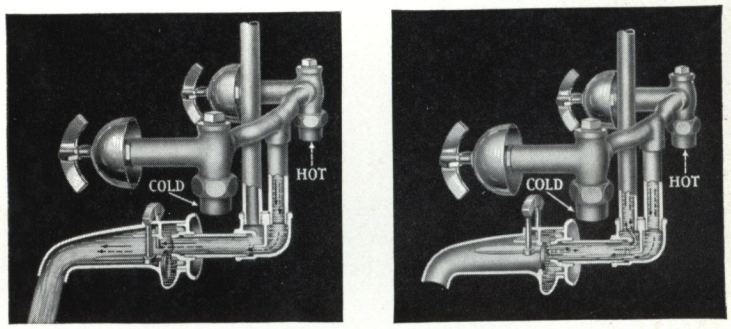
The charming *Criterion* pattern is the newest Crane development—the very latest step forward in practical modern design. Its panel effects provide complete style harmony for new Crane paneled fixtures.

NEUVOGUE

The attractive *Neuvogue* pattern achieves the utmost in modernity and practical beauty for the bathroom of character.

RIVAL

The smart looking *Rival* pattern has been a sales leader for many years—incorporating many of the engineering features of the fine *Criterion* line—providing the same practical utility at a cost within the modest budget.

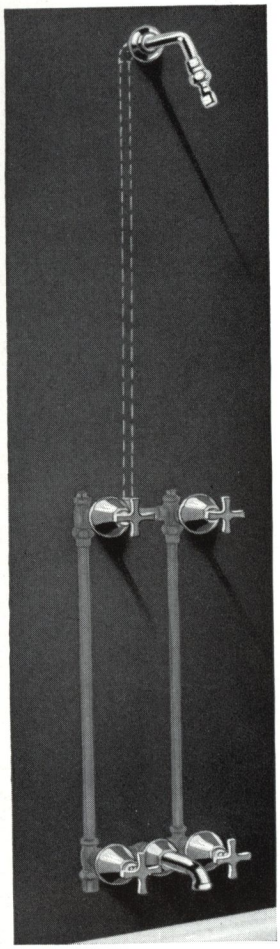


Sectional views showing Deviator principal.

To the left the Diverter valve is down directing water to the spout—to the right it is lifted directing water to the shower. Water must be flowing from the spout before the shower can be operated—thus the desired temperature for the shower is pre-determined. When water is turned off, the Diverter valve automatically closes, eliminating the possibility of unexpected shower for the next user.

Fountain Section starts on Page 35-1

C 3845



C 3845

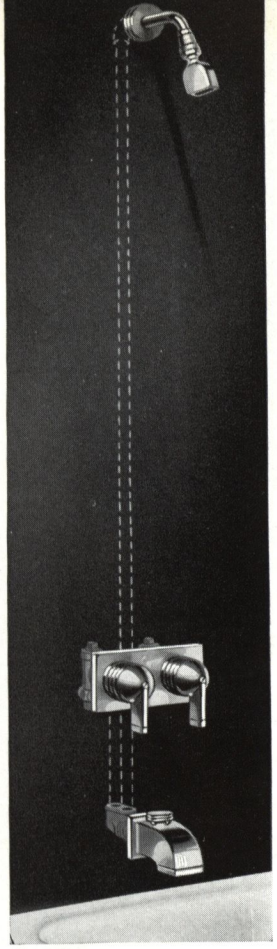
Rival pattern ½" concealed 4-valve overrim bath supply and shower fixture with *Economy* non-clogging ball-joint shower head.

All exposed metal chromium plated.

C 3851
Patented

Neuvogue pattern ½" concealed *Deviator* overrim bath supply and shower fixture with water-saver ball-joint shower head.

All exposed metal chromium plated.



C 3851

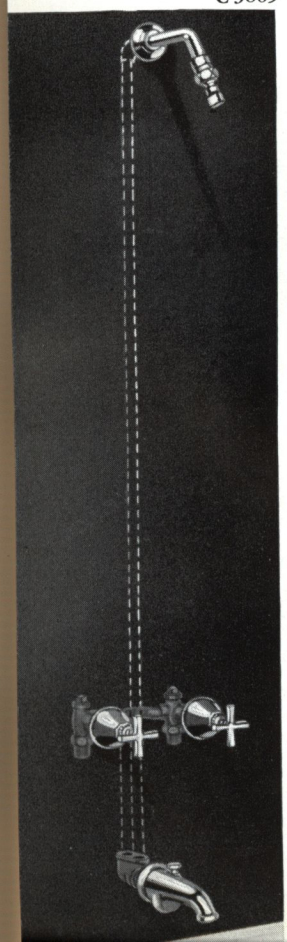
The DEVIATOR

Banishes all possibility of "unexpected" shower.

Permits adjusting water temperature at spout before turning on shower.

See preceding page for principal of operation.

C 3865



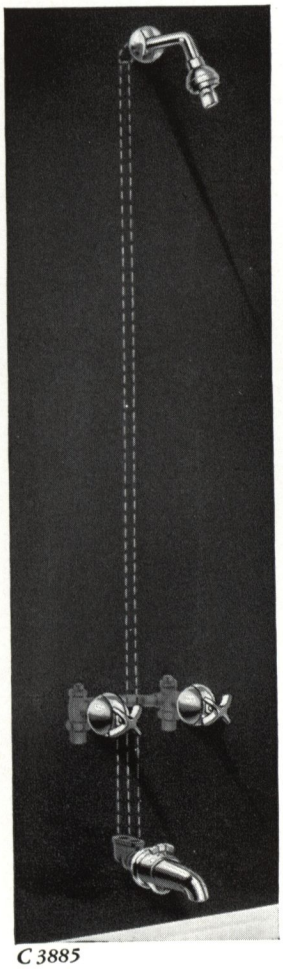
C 3865
Patented

Rival pattern ½" concealed *Deviator* overrim bath supply and shower fixture with *Economy* non-clogging ball-joint shower head.

All exposed metal chromium plated.

C 3865-R

Same as above except, with *Refreshor* easy-clean ball-joint shower head.



C 3885

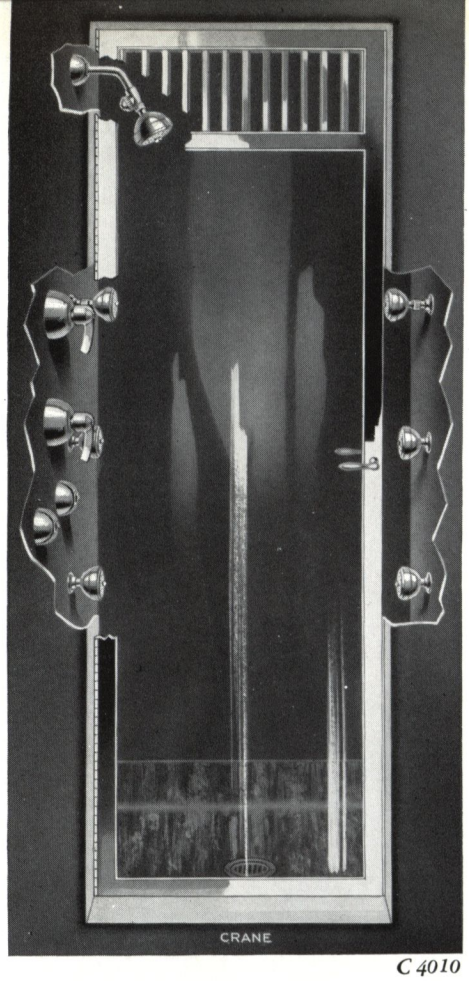
C 3885

Criterion pattern ½" concealed *Deviator* overrim bath supply and shower fixture with water-saver ball-joint shower head.

All exposed metal chromium plated.

Shower trimmings . . . . . Page 32-1 to 34-1

CRANE RECESSED SHOWERS



C 4010

NOTE: Shower door, receptor, and strainer are not included.

C 4010

Criterion pattern chromium plated ¾" mixing valve compartment shower with 4" shower head with ball-joint and volume control, six side sprays (top two with ball-joint), screw driver stops controlling water supply to mixer, and transfer valve to direct water to shower head, or side sprays or both, as desired.

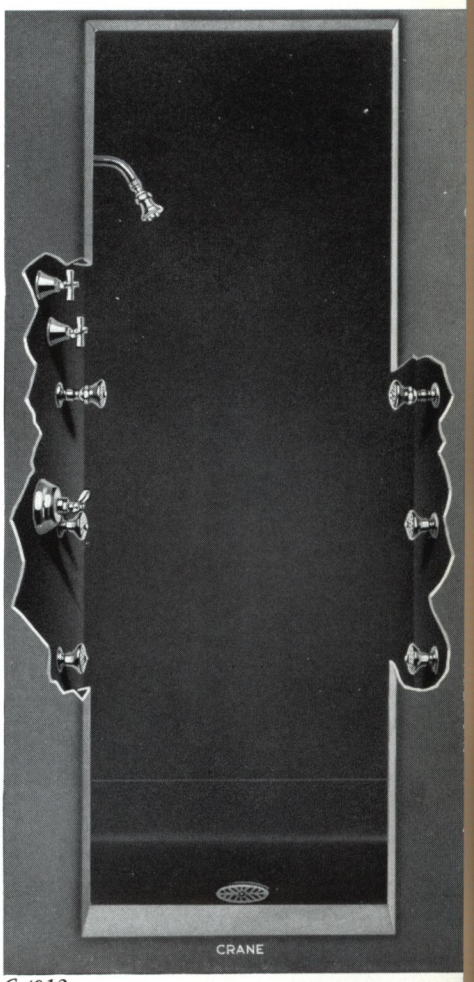
C 4012

Rival pattern chromium plated ¾" mixing valve compartment shower with *Refreshor* easy-clean shower head with ball-joint, six side sprays (top two with ball-joint), and controlling valves, one for overhead shower and one for side sprays.

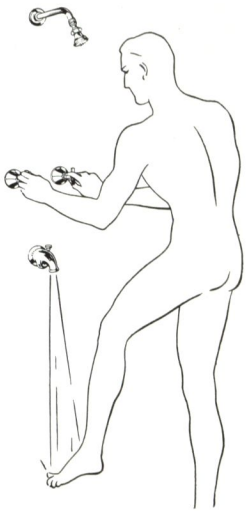
NOTE: Check valves must be installed in supply lines.

C 4015

Same as C 4012 except with two valve control instead of mixing valve.



C 4012



C 4025

Featuring the DEVIATOR Automatic Tester Spout for Built-in Showers.

Rival pattern chromium plated ½" two-valve shower, with *Refreshor* easy-clean ball-joint shower head and *Deviator* automatic tester spout.

NOTE: Shower receptor and strainer are not included.

C 4025-E

Same as C 4025 except with *Economy* shower head.

When water is turned on, it runs from the spout and may be adjusted to the right temperature by the two valves.



Lifting knob on the *Deviator* spout directs water of the desired temperature through the shower head.

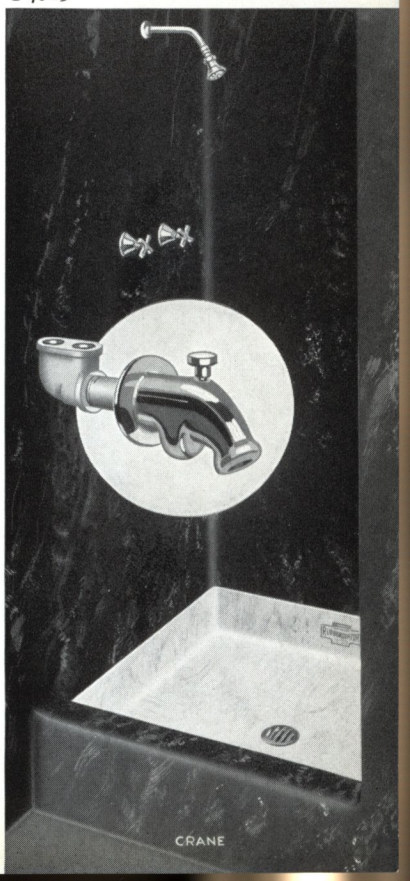


Pushing down knob directs water through the spout permitting bather to soap up without stepping from the shower.

The *Deviator* also permits using the shower bath for convenient foot bathing.

When water is turned off, the diverter valve in spout automatically closes, eliminating the possibility of unexpected shower for next user.

C 4025



Shower Doors . . . . . Page 29-1

Shower Receptors . . . . . Page 30-2

CRANE MIXING VALVE SHOWERS

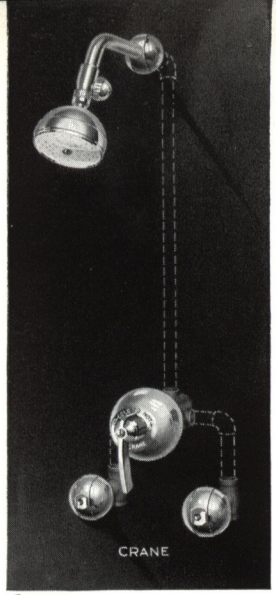
C 4155
Patented

Criterion pattern ½″ concealed mixing valve shower with 4″ shower head with ball-joint and volume control, and screw driver stops controlling water supply to mixer.

All exposed metal chromium plated.

C 4150

Same as above except less stops.



C 4155



C 4393

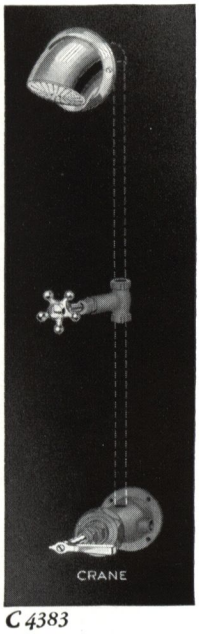
C 4393
Patented

Rival pattern ½″ concealed mixing valve shower with *Refreshor* easy-clean shower head with ball-joint and volume control.

All exposed metal chromium plated.

C 4392

Same as above except less volume control.



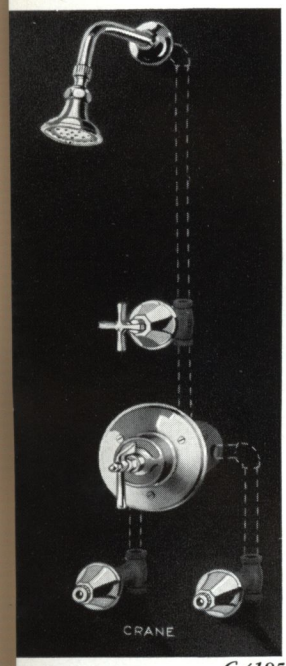
C 4383

C 4383

PRISON SHOWER

Prison pattern ½″ concealed mixing valve shower, vandal-proof, with control valve for shower volume, non-removable handles and wall type 4″ shower head.

All exposed metal chromium plated.



C 4185

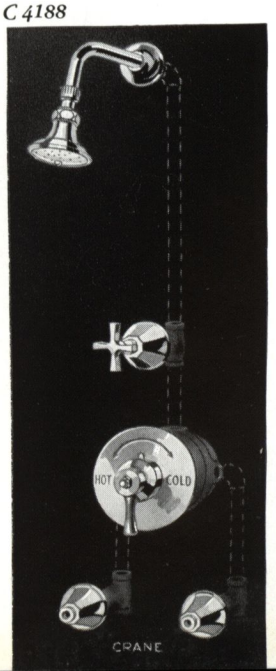
C 4185
Patented

Leonard thermostatic, concealed mixing valve shower with ½″, 10 gal. type RC mixer, *Rival* control valve, *Rival* screw driver stops, and 4″ shower head with ball-joint.

All exposed metal chromium plated.

NOTE: Check valves should be installed in supply lines.

C 4188



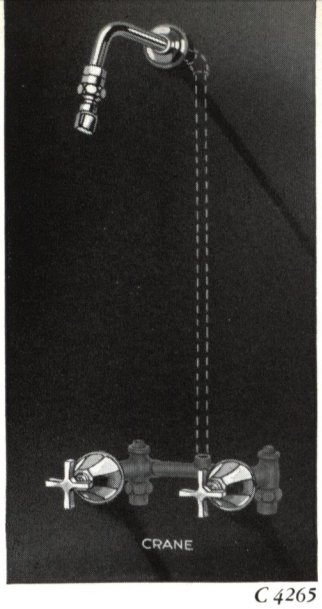
C 4188
Patented

Powers thermostatic, concealed mixing valve shower with ½″ style MC6 mixer with built-in strainers and ball check, *Rival* control valve, *Rival* screw driver stops, and 4″ shower head with ball-joint.

All exposed metal chromium plated.

Shower trimmings . . . . . page 32-1 to 34-1

CRANE TWO VALVE SHOWERS



C 4265

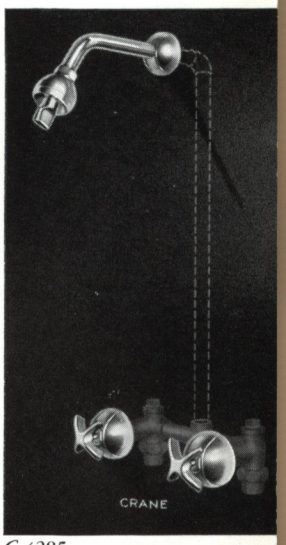
C 4265

Rival pattern ½″ two-valve shower with *Economy* non-clogging, ball-joint shower head.

All exposed metal chromium plated.

C 4265-R

Same as above except with *Refreshor* easy-clean shower head.



C 4285

C 4285

Criterion pattern ½″ two-valve shower with water-saver ball-joint shower head.

All exposed metal chromium plated.


C 4872

CRITERION SHOWER HEADS

The C 4872 *Criterion* 4″ head delivers an invigorating, peppy shower.

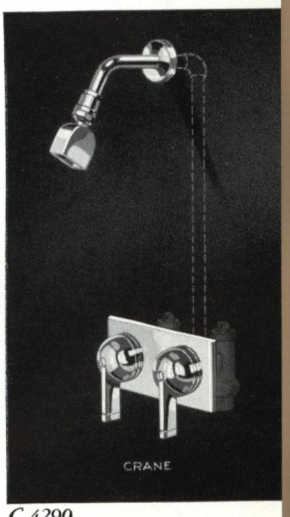

C 4873

The C 4873 *Criterion* water-saver head delivers a soothing aerated shower.

Both have adjustable ball-joint and ½″ female inlet.


C 4890

The C 4890 *Criterion* volume control regulates the amount of water delivered to the shower head. ½″ female inlet and male outlet.



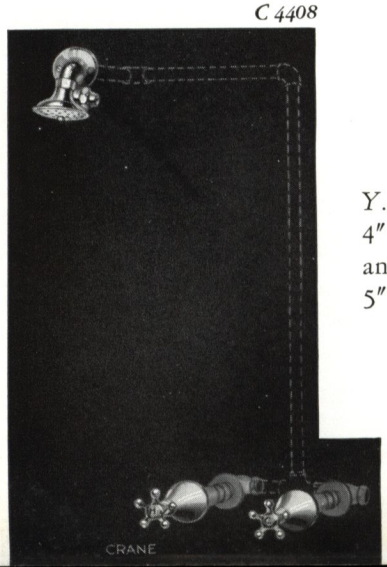
C 4290

C 4290

Neuvogue pattern ½″ two-valve shower with water-saver ball-joint shower head.

All exposed metal chromium plated.

C 4408



C 4408

Y.M.C.A. SHOWER

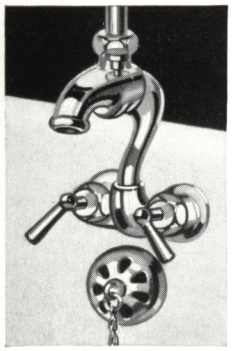
Y.M.C.A. pattern ½″ two-valve shower, wall type 4″ shower head with screw driver volume control, and valves with extended shanks for partitions 5″ thick.

All exposed metal chromium plated.

Shower trimmings . . . . . page 32-1 to 34-1

OVERRIM BATH SPOUT EXPOSED SHOWER FOR ROLL RIM BATHS

Providing a shower for roll rim bath installations, the Addenda fixture fitting present faucet punchings.



ADDENDA—C 4349

SHOWER: C 4348 *Addenda* exposed shower, with lever handle faucet, overrim *Deviator* spout, and *Refreshor* easy-clean ball-joint shower head.

CURTAIN ROD: C 4955, 28 x 42″ rectangular rod, with support to ceiling and supporting clamp to shower riser.

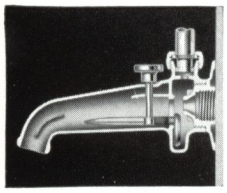
All exposed metal chromium plated.

To the left is an enlarged view of the faucet showing outlet of *Deviator* spout above rim to prevent any possible back-flow of tub water.



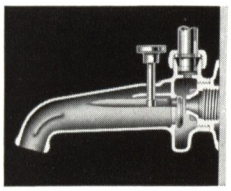
C 4349

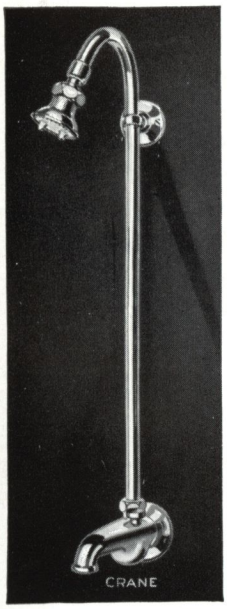
OVERRIM BATH SPOUT AND TOP NOZZLE EXPOSED SHOWERS FOR BUILT-IN BATHS



To the left, the section thru *Deviator* overrim spout shows transfer valve position with water flow to tub.

To the right, the section thru *Deviator* overrim spout shows transfer valve position with water flow to shower.





C 4344

Providing a shower for bath installations with overrim spout, top nozzle or top bell, the Addenda fixture replacing these parts.

ADDENDA—C 4344

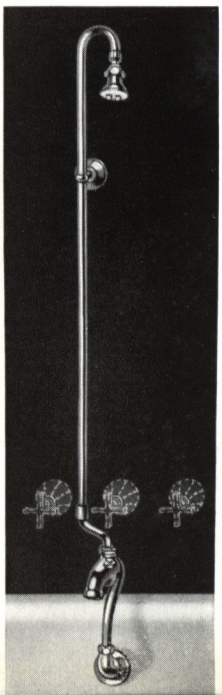
Addenda exposed shower, with overrim *Deviator* spout and *Refreshor* easy-clean ball-joint shower head.

All exposed metal chromium plated.

ADDENDA—C 4345

Same as above except with *Deviator* top nozzle.

C 4335



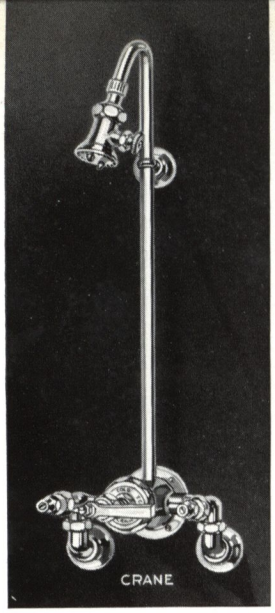
ADDENDA—C 4335

Addenda exposed shower, with top nozzle, overrim *Deviator* spout, and *Refreshor* easy-clean ball-joint shower head.

All exposed metal chromium plated.

Shower trimmings . . . . . Page 32-1 to 34-1

C4381 (*See Page 26-2*)
C4393 (*See Page 26-2*)
C4408 (*See Page 27-1*)



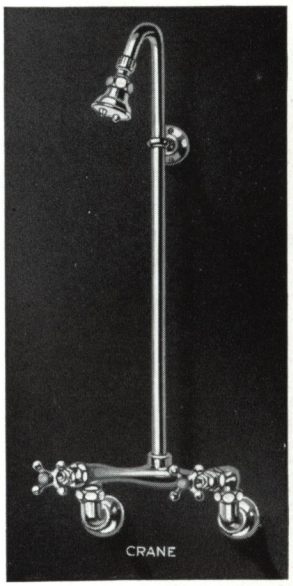
C 4437

C 4437
Patented

Chromium plated exposed ½″ mixing valve shower with screw driver stops, union elbow supply connections to wall, and *Refreshor* easy-clean shower head with ball-joint and volume control.

C 4571

Same as above except with supplies from ceiling. (Less screw driver stops.)



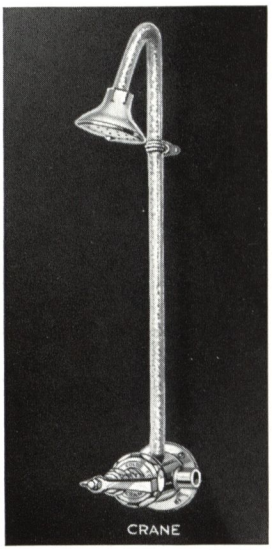
C 4465

C 4465

Chromium plated exposed ½″ *Telsa* two-valve shower with union elbow supply connections to wall, and *Refreshor* easy-clean ball-joint shower head.

C 4521

Same as above except with supplies from floor.

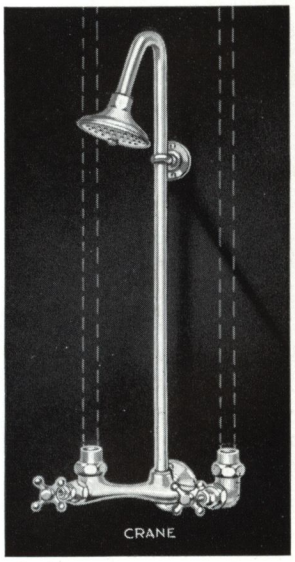


C 4650

FACTORY SHOWERS

C 4650
Patented

Exposed mixing valve shower with ½″ rough nickel plated mixer, galvanized gooseneck riser, and 4″ rough nickel plated shower head.



C 4670

C 4670

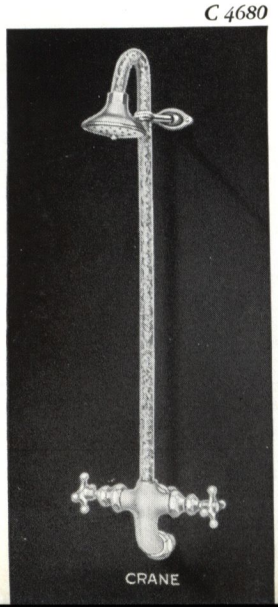
Exposed ½″ *Telsa* two-valve shower with union elbow connections for supplies from ceiling, and 4″ rigid shower head.

All exposed metal rough nickel plated.

C 4671

Same, except arranged for supplies from floor.

C 4680

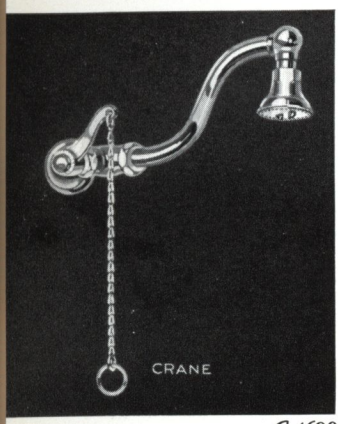


C 4680

Exposed factory shower with ¾″ rough brass double supply valve with male union supply connections, galvanized gooseneck riser, and 4″ rough brass shower head.

Shower trimmings . . . . . Page 32-1 to 34-1

CRANE SPECIAL SHOWERS



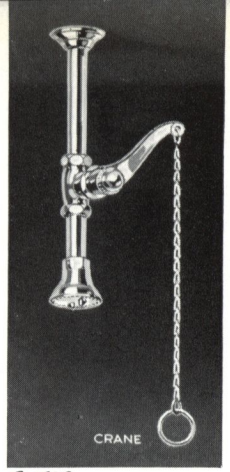
C 4690

C 4690
Patented

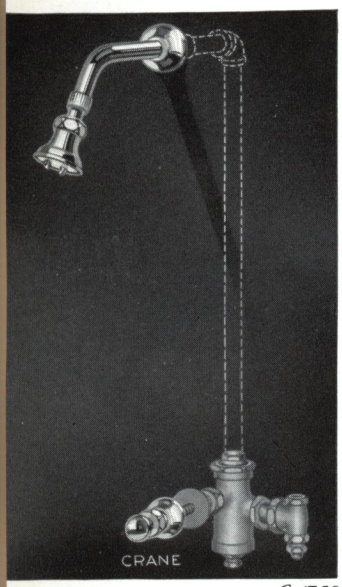
Chromium plated exposed chain-pull ½″ shower, with *Triumph* self-closing valve, offset arm to wall, and *Refreshor* easy-clean shower head.

C 4692
Patented

Chromium plated exposed chain-pull ½″ shower, with *Triumph* self-closing valve, straight arm to ceiling, and *Refreshor* easy-clean shower head.



C 4692



C 4750

C 4750
Patented

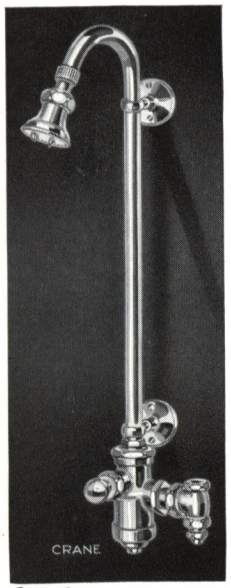
Concealed *Beta* flushing valve shower, with push button, regulating screw to adjust length of flush, ½″ screw driver stop, and *Refreshor* easy-clean ball-joint shower head.

All exposed metal chromium plated.

C 4742
Patented

Exposed *Beta* flushing valve shower, with push button, regulating screw to adjust length of flush, ½″ screw driver stop, and *Refreshor* easy-clean ball-joint shower head.

All exposed metal chromium plated.

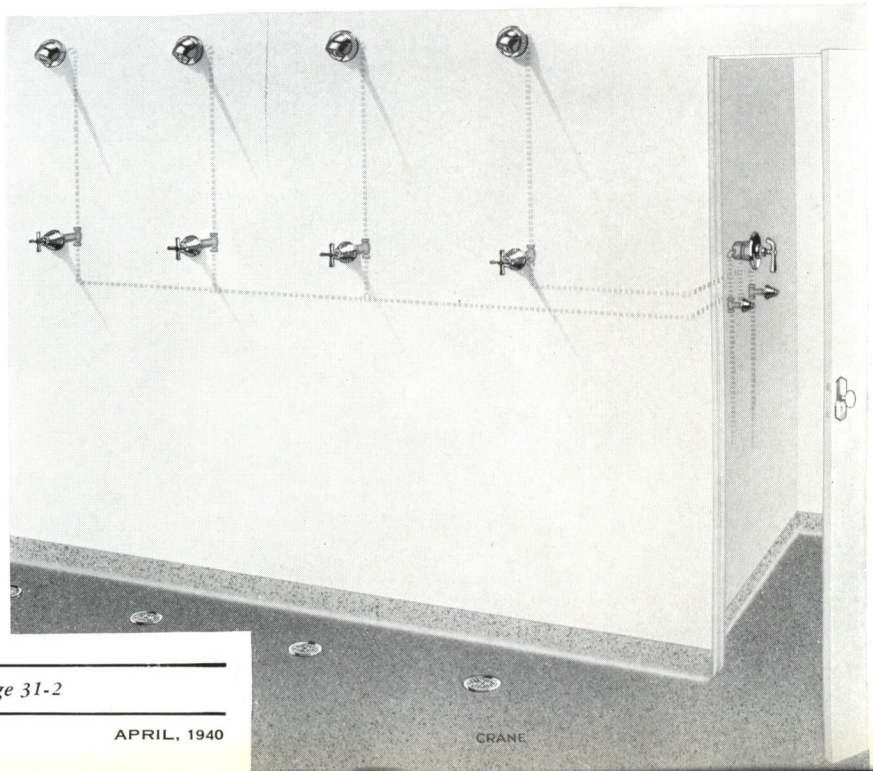


C 4742

A Typical Group Shower Installation

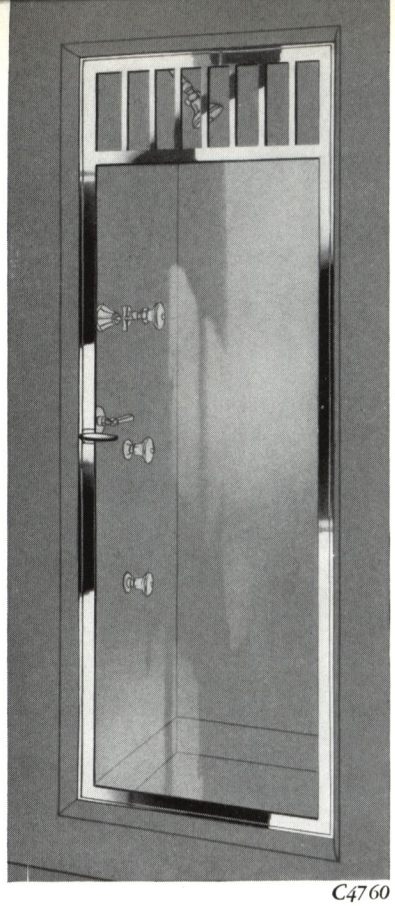
The typical group shower shown to the right includes vandal proof wall type *Refreshor* shower heads with *Rival* concealed valves providing independent volume control for each head. A thermostatic mixing valve supplies tempered water to the showers and usually one head is piped direct to cold water line to provide a cold only shower in the group.

Suggestions and details for special group shower arrangements will gladly be furnished on receipt of job requirements.



Thermostatic mixing valves . . . . . Page 31-2

CRANE GLASS SHOWER DOORS



C4760

Glass shower doors are a permanent investment in beauty, comfort and health protection—providing a final touch of elegance to the modern shower stall. Their original cost will prove a provident expenditure for they eliminate shower curtain replacement and cleaning costs and the nuisance of their upkeep. All water is kept within the shower compartment—no mopping the floor after each shower.

In addition to the doors shown below, styles with special pattern grilles, clear or obscure glass, and decorative glass panels are available. Prices on application.

C 4760

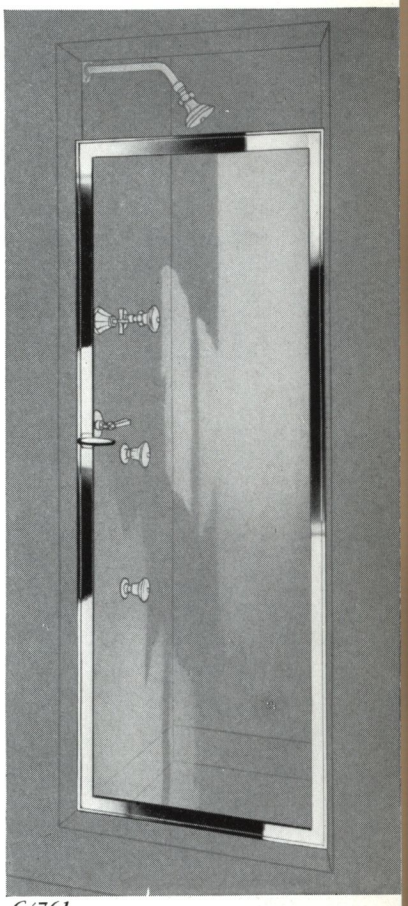
Clear crystal glass shower door with chromium plated metal frame, ventilating grille, piano hinge, and lever handle latch.

Size: 24″ x 72″.

C 4761

Same as C 4760 except without ventilating grille.

Size: 24″ x 64″.

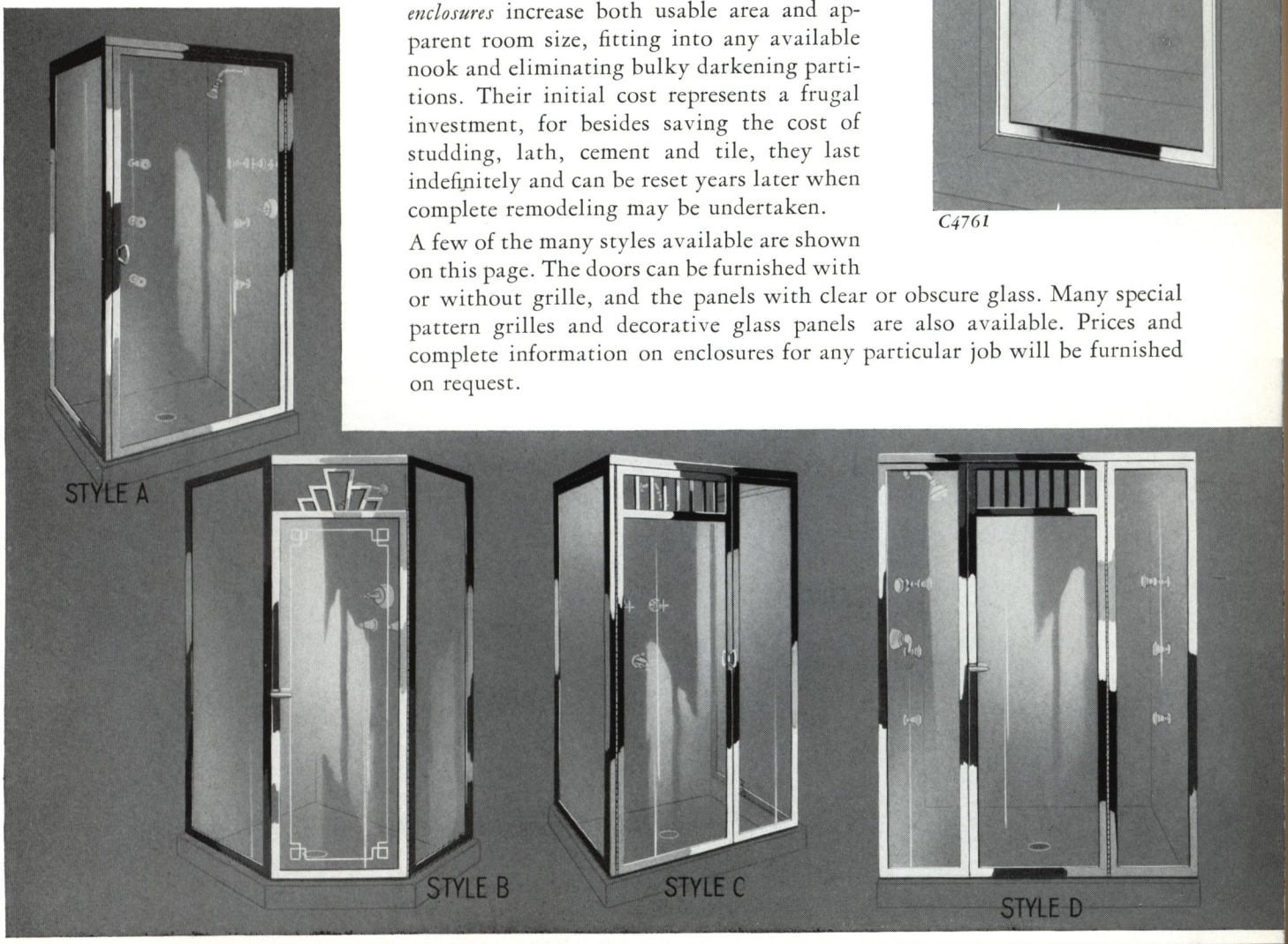


C4761

CRYSTAL SHOWER COMPARTMENTS

In addition to providing distinction and luxury for the modern bathroom, *glass shower enclosures* increase both usable area and apparent room size, fitting into any available nook and eliminating bulky darkening partitions. Their initial cost represents a frugal investment, for besides saving the cost of studding, lath, cement and tile, they last indefinitely and can be reset years later when complete remodeling may be undertaken.

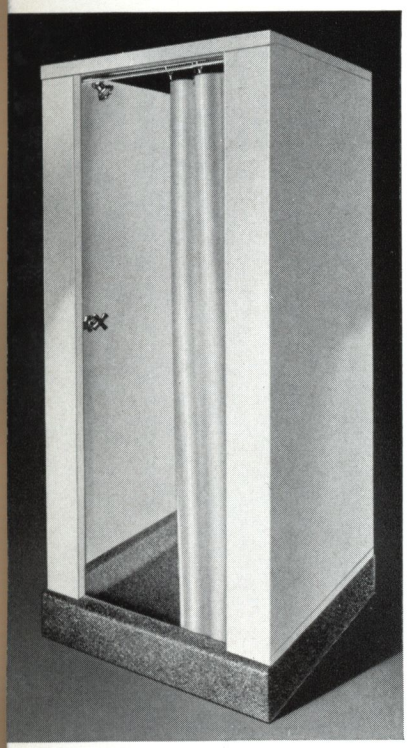
A few of the many styles available are shown on this page. The doors can be furnished with or without grille, and the panels with clear or obscure glass. Many special pattern grilles and decorative glass panels are also available. Prices and complete information on enclosures for any particular job will be furnished on request.



CRANE CABINET SHOWERS

Shower compartments embodying superior construction details and attractively finished, making them suitable for installation in the best hotels, apartments, schools, clubs and fine homes.

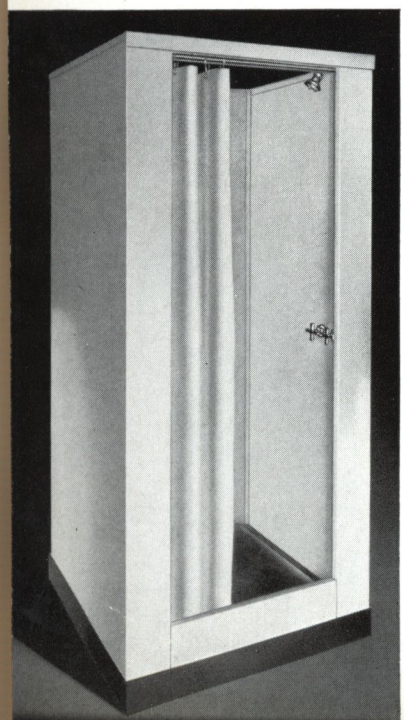
They are available with walls in color at small extra cost. Also available with glass door, and ceiling unit with dome light, at extra cost.



MARINE C 4707

MARINE model cabinets available with 12″ extended front receptors.

CADET C 4715



WEISWAY VP MASTER C 4706

WALLS: Armco Iron. White vitreous porcelain enamel with black trim.

RECEPTOR: Armco Iron, one-piece; vitreous porcelain enameled, jet black with textured green *Foot-Grip*, *No-Slip* surface in Seashell pattern; 2″ drain.

TRIMMINGS: Chromium plated; special mixing valve shower, soap dish and curtain rod. (Curtain extra) (other trim available).

Sizes: 32 x 32″, *36 x 36″, 42 x 36″—80″ high.

C 4707 FIAT MARINE

WALLS: Rustproofed galvanized steel; white baked enamel finish. Doorway frames of hollow metal construction.

RECEPTOR: Precast *Artex* receptor, with 2″ drain. Available with extended front.

TRIMMINGS: Chromium plated; Two-valve shower unit with soap dish, curtain rod and white duck curtain.

Sizes: 30 x 30″, 32 x 32″, *36 x 36″—76″ high.

WEISWAY STANDARD C 4712

WALLS: Bonderized galvanized steel; white baked enamel finish with black trim.

RECEPTOR: Armco Iron, one-piece; vitreous porcelain enameled, jet black with textured green *Foot-Grip*, *No-Slip* surface in Seashell pattern; 2″ drain.

TRIMMINGS: Chromium plated; Two-valve shower unit with soap dish, curtain rod and white duck curtain.

Sizes: 30 x 30″, 32 x 32″, *36 x 36″—78″ high.

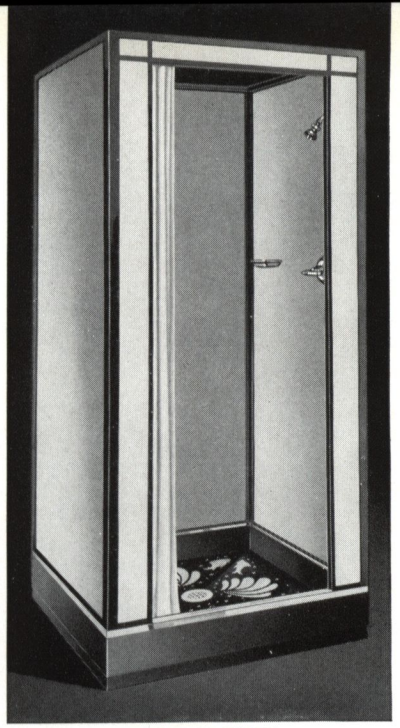
C 4715 FIAT CADET

WALLS: Rustproofed galvanized steel; white baked enamel finish.

RECEPTOR: Precast *Stonetex* receptor with 2″ drain.

TRIMMINGS: Chromium plated; Two-valve shower unit, soap dish, enameled curtain rod and white duck curtain.

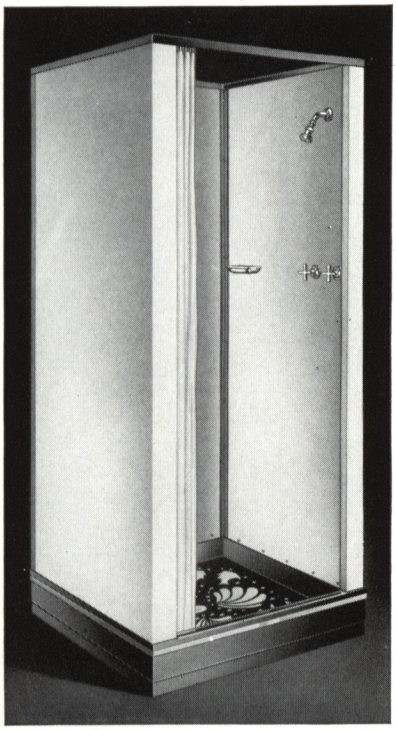
Sizes: 30 x 30″, 32 x 32″, *36 x 36″—76″ high.



C 4706 VP MASTER

**Corner entrance model available.*

C 4712 STANDARD



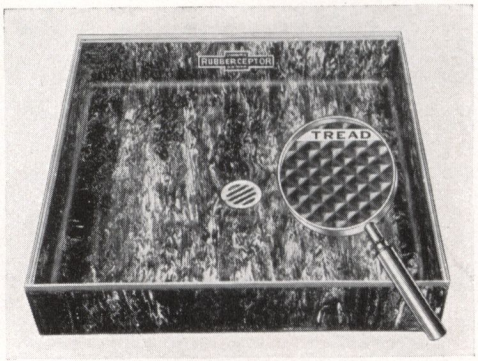
**Corner entrance model available.*

NOTE: In ordering cabinet showers on this page, specify size, type of shower desired (if other than standard) and whether fixture is to be on right or left side when facing entrance.

Shower receptors . . . . . Page 30-2

"RUBBERCEPTOR" SHOWER RECEPTOR

(PATENTED)



C 5090

C 5090

Rubberceptor solid rubber shower receptor with chromium plated strainer for 2-inch iron pipe.

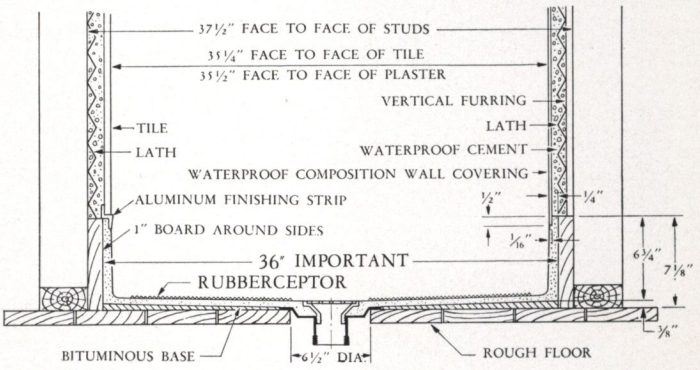
Length, overall	**Inches**	36
Width, overall	**Inches**	36
Height, overall	**Inches**	6⅞
Shipping weight, approx.	**Pounds**	70

Furnished in the following colors: Marbleized white on black, Marbleized Black on Ivory, and Marbleized Slate Green.

- The ***Rubberceptor*** has a unique diamond tread floor which allows the bather complete freedom of movement without danger of slipping. It is pleasant to the feet—soft and totally lacking the clammy chill of other materials. Odorless and easily cleaned with any solvent ordinarily used in the bathroom.
- Moulded in one piece—positively leak-proof; the patented drain eliminates any possibility of leakage at the outlet without the use of gaskets, pans or compounds.
- The inherent flexibility of rubber enables the ***Rubberceptor*** to take up building strains or settling without damage to wall facings.
- Will not check, craze or crack. Moisture actually preserves the life of the ***Rubberceptor.***
- A permanent, water-tight connection between the ***Rubberceptor*** and stall walls is easily made, Aluminum finishing strips are necessary when tile, plaster, glass or other walls greater than ⅛-inch in thickness are used. Thin, waterproof compositions such as linoleums or wall rubber do not require these strips.
- The ***Rubberceptor*** is furnished in one size only — 36 inches square requiring a space 37½ inches between studs.

TILE DETAIL

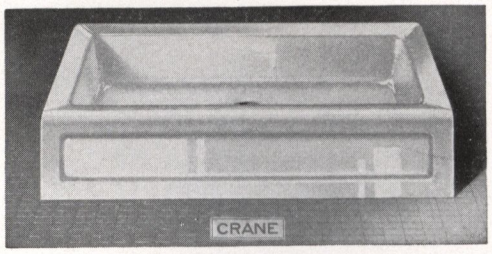
COMPOSITION WALL COVERING DETAIL



- Being of one-piece, leak-proof construction, no lead pan is necessary. It is easily installed—merely lay the bituminous mat furnished directly on the floor (rough or finished) and lay the ***Rubberceptor*** loosely on it. The mat, when laid on a level floor assures prompt, complete drainage.
- The ***Rubberceptor*** can be carried through any door, and can be protected during construction by the carton in which it is shipped.

An Extra Heavy ***Rubberceptor*** is also available which is 37½ inches square outside and requires 39 inches between studs and does not require the use of the bituminous mat. Merely specify **C 5090** Extra Heavy ***Rubberceptor.***

PORCELAIN SHOWER RECEPTOR



C 5080

C 5080

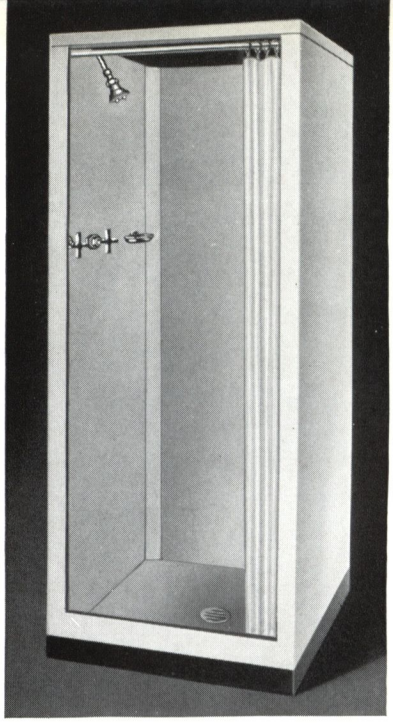
Porcelain (all-clay) shower receptor, less strainer.

Size of receptor	**Inches**	36 x 36	42 x 42
Depth, overall	**Inches**	9	9
Shipping weight, approx.	**Pounds**	410	495

For Shower Drains, see page 99-1

CRANE CABINET SHOWERS

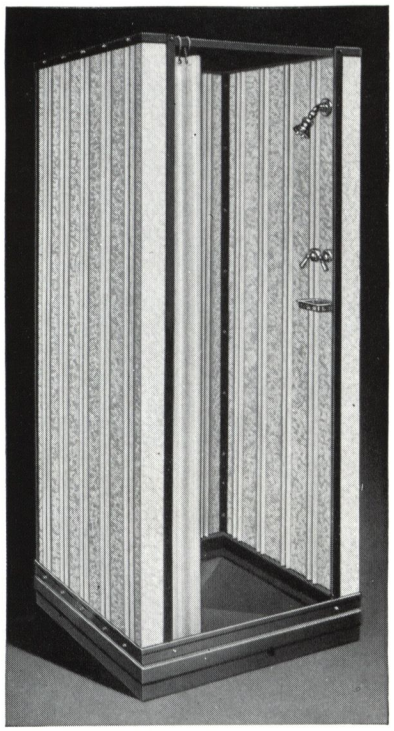
Shower compartments of good sturdy construction at a moderate price, desirable for installation in small homes, summer cottages, basement rooms, tourist courts, hotels, etc.



SKIPPER C 4709

SKIPPER cabinet also available in natural galvanized finish with dull plated trimmings.

COTTAGER C 4713



COTTAGER cabinet also available with grey baked enamel walls.

C 4709 FIAT SKIPPER

WALLS: Galvanized copper-bearing steel; white baked enamel finish.

RECEPTOR: Galvanized heavy gauge copper-bearing steel; 2″ drain.

TRIMMINGS: Chromium plated; Two-valve shower unit, with soap dish, curtain rod and white duck curtain.

Size: 30 x 30″—76″ high.

WEISWAY COTTAGER DELUXE C 4710

WALLS: Bonderized galvanized steel; white baked enamel finish with black trim.

RECEPTOR: Bonderized galvanized steel; black baked enamel finish; 2″ drain.

TRIMMINGS: Chromium plated; Two-valve shower unit, with soap dish, curtain rod and white duck curtain.

Size: 30 x 30″—76″ high.

C 4713 WEISWAY COTTAGER

WALLS: Select galvanized steel; paneled, with black baked enamel trim.

RECEPTOR: Bonderized galvanized steel; black baked enamel finish; 2″ drain.

TRIMMINGS: Dull plated; Two-valve shower unit, with soap dish, curtain rod and white duck curtain.

Size: 30 x 30″—76″ high.

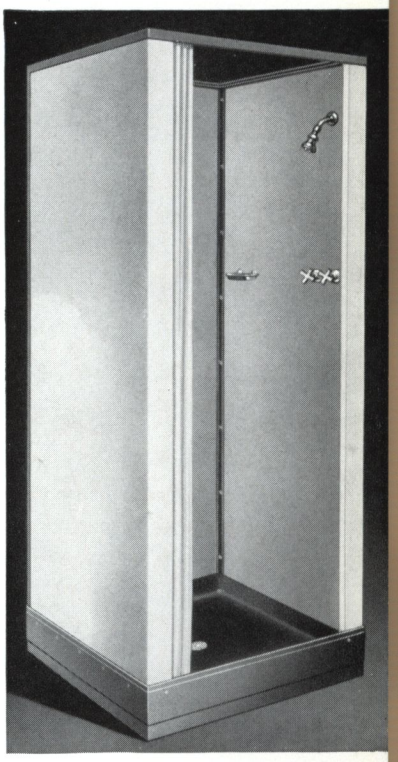
ELKAY JUNIOR C 4708

WALLS: Galvanized copper-bearing steel; natural finish.

RECEPTOR: Galvanized heavy gauge copper-bearing steel; 2″ drain.

TRIMMINGS: Dull plated; Two-valve shower unit, with soap dish, curtain rod and white duck curtain.

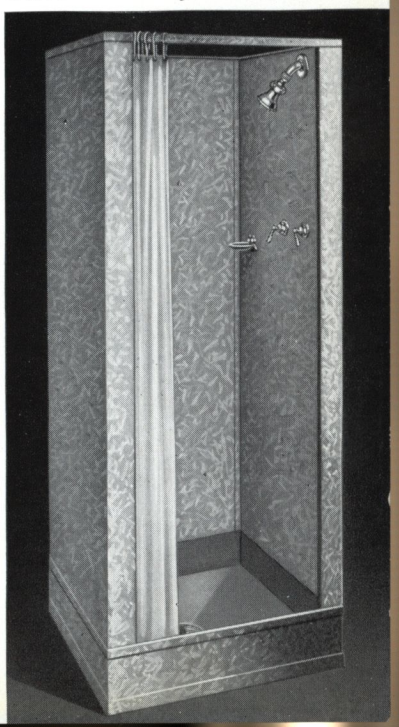
Size: 30 x 30″—76″ high.



C 4710 *COTTAGER DELUXE*

JUNIOR cabinet also available in white baked enamel finish; chromium plated trim.

C 4708 *JUNIOR*



NOTE: In ordering cabinet showers on this page, specify size, type of shower desired (if other than standard) and whether fixture is to be on right or left side when facing entrance.

Shower receptors . . . . . Page 30-2

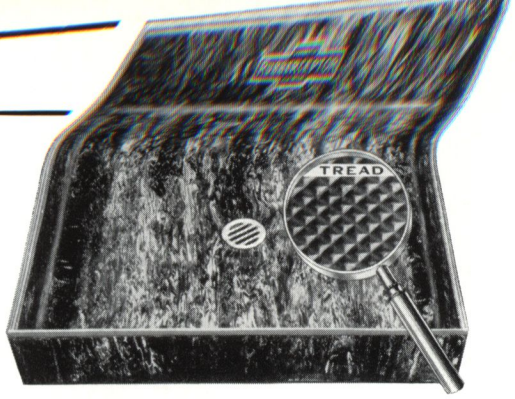
CRANE SHOWER RECEPTORS

RUBBERCEPTOR—C 5090
Patented

Rubberceptor solid rubber *colored shower receptor with 2″ chromium plated drain.

Size: 36″ x 36″ x 6⅞″.

*Furnished in marbleized colors: white on black, black on ivory or slate green.



C 5090

Features

The *Rubberceptor* of moulded one-piece leak-proof construction, has diamond tread floor to prevent slipping and patented drain which eliminates possible leakage at the outlet. It is pleasingly soft to the feet, odorless, easily cleaned and will not craze, check or crack. The inherent flexibility of rubber enables the *Rubberceptor* to take up building strains or settling without damage to wall facings.

Easily installed—merely lay the bituminous mat furnished, directly on the floor and the *Rubberceptor* on it. The mat is constructed so assure proper drainage when laid on a level floor.

WEISWAY VITRECEPTOR—C 5084

For all kinds of finish, wall material

Weisway white porcelain enamel on iron, one-piece shower receptor with neutral tone seashell pattern, Foot-Grip, No-Slip floor surface and chromium plated 2″ cast brass drain. (Other color combinations available on special order.)

Sizes: 32 x 32″, 36 x 36″, 36 x 42″
42 x 36″ and 42 x 42″.


C 5084

Features

Weisway receptors are permanently leak-proof, rust-proof, non-absorbent and thoroughly sanitary. They require no reinforcement of building floor and being leak-proof, no lead pans are needed. The Foot-Grip, No-Slip floor surface is equally safe either wet or dry.

FIAT—C 5086

For walls of tile, plaster, structural glass, etc.

Fiat precast *composition shower receptors with 2″ chromium plated drain.

Sizes: 30 x 30″, 36 x 36″ and 42 x 42″.

*Three aggregates available:
TERRAZZO—White Portland cement with chips of black and white marble.
ARTEX—White and gray Portland cement with crushed black traprock chips.
STONETEX—Gray Portland cement with crushed limestone chips.


C 5086

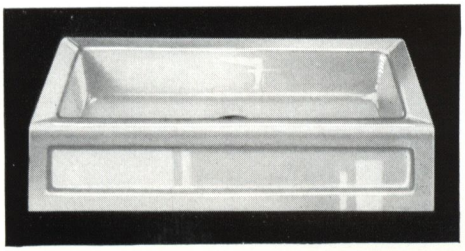
Features

Fiat receptors are a complete precast and thoroughly leak-proof sanitary shower flooring—not affected by building strains or settling and the need for a lead pan is completely eliminated. A heavy imbedded galvanized steel flange extends 1½″ above receptor floor, eliminating every possibility of leakage at wall and floor joint, and perforated for attaching metal lath.

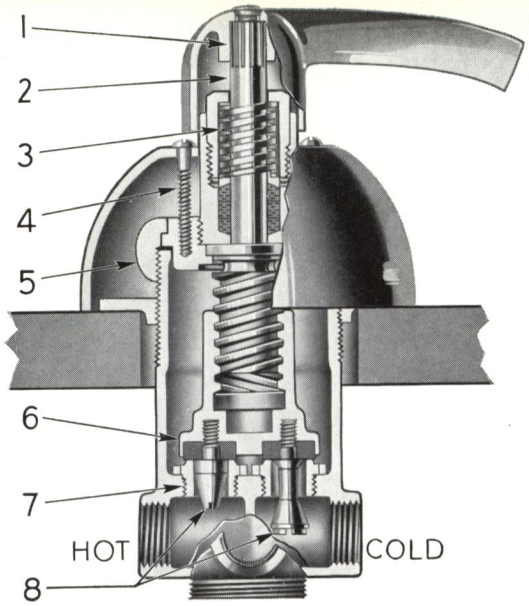
C 5080

Porcelain (all-clay) shower receptor, less strainer.

Size: 36 x 36″ and 42 x 42″.


C 5080

Shower drains . . . . . Page 99-1



THE "CRITERION" VALVE

Superior Features

1. Handle adjustable to 16 positions.
2. Large diameter stem.
3. Patented self-adjusting packing. Wear is taken up by spring. Can be repacked without removing escutcheon.
4. Adjustable escutcheon allows for variation in roughing-in.
5. Union bonnet connection extends beyond face of wall. Union ring is easily removed as threads do not come in contact with water.
6. Disc holders are integral with yoke; this prevents chattering under high pressures.
7. Seats and all internal working parts are renewable from face of wall.
8. Machined conical disc screws assure uniform mix of water.

Cold water is first obtained as valve is opened. Full range of temperature is obtained with a three-quarter turn of the handle.



C 4788

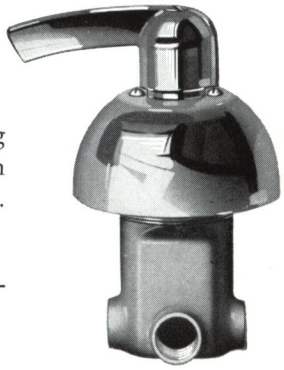
½″ or ¾″ quick opening exposed mixing valve with female supply connections.

C 4793

Criterion ¾″ quick opening concealed mixing valve with female supply connections.

C 4792

Same except with *Rival* pattern trimmings.

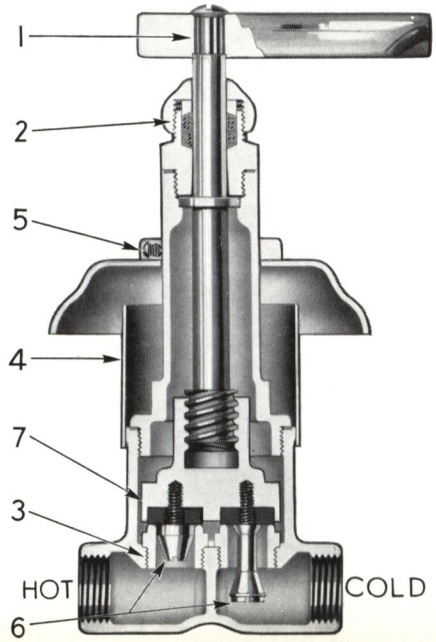


THE "RIVAL" VALVE

C 4802

½″ *Rival* concealed mixing valve with female supply connections.





Superior Features

1. Handle adjustable to 12 positions.
2. Exposed stuffing box; can be repacked without removing escutcheon.
3. Seats and all internal working parts are renewable from face of wall.
4. Brass casing prevents water from dripping behind wall when bonnet is removed.
5. Adjustable escutcheon allows for variation in roughing-in.
6. Machined conical disc screws assure uniform mix of water.
7. Disc holders are integral with yoke; this prevents chattering under high pressures.

Cold water is first obtained as valve is opened. Full range of temperature is obtained with a seven-eighths turn of the handle.

All exposed metal chromium plated

CRANE ANTI-SCALDING AND THERMOSTATIC MIXING VALVES



C 4810

C 4810

Doran Type A-3, ½″ concealed mixer with automatic thermal unit for temperature control only.

C 4811

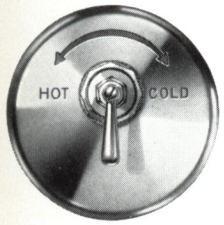
Doran Type A-2, ½″ exposed mixer with automatic thermal unit for temperature control only.



C 4811

CAPACITY: 5 gals. per minute at 35 lbs. pressure.

NOTE: Specify type B for ¾″ mixer with 10 gals. per minute capacity. The ¾″ mixer can be furnished with ½″ supplies when so ordered. Volume control valve not included but should be installed at outlet.



C 4815

C 4815

Powers Style C, ½″ anti-scalding concealed mixer with pressure equalizer, shut-off valve and built-in check valves.

C 4816

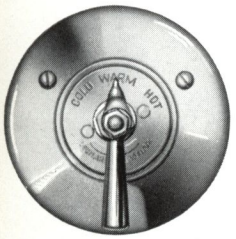
Powers Style A, ½″ anti-scalding exposed mixer with pressure equalizer, shut-off valve and built-in check valves.



C 4816

CAPACITY: 10 gals. per minute at 40 lbs. pressure.

NOTE: ¾″ mixer with 19 gals. per minute capacity available. Style B concealed mixer accessible from rear only, available.



C 4820

C 4820

Leonard Type RC concealed thermostatic mixer for temperature control only.

C 4821

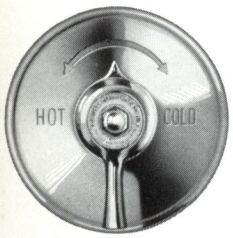
Leonard Type RE exposed thermostatic mixer for temperature control only.



C 4821

*Sizes: ½″ x 5 or 10 gals., ¾″ x 15 or 25 gals., 1″ x 45 gals.
*Gallons per minute capacities based on 45 lbs. water pressure.

NOTE: Volume control valve should be installed at outlet and shut-off and check valves (or Crane C 5037 stops with check feature) in supply lines. These are not included.



C 4825

C 4825

Powers Type MC ½″ concealed thermostatic mixer for temperature control only, with built-in strainers and ball check.

CAPACITY: 6 gals. per minute at 40 lbs. pressure.

C 4834

Powers Type TE ½″ exposed thermostatic mixer for temperature control only, with built-in strainers and check valves.

CAPACITY: 10 gals. per minute at 40 lbs. pressure.



C 4834

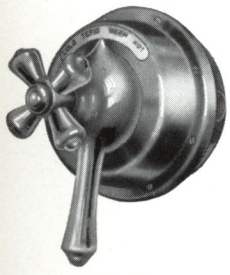
C 4826

Powers Type ME (for exposed valve).

C 4836

Powers Type TC (for concealed valve).

NOTE: Volume control valve not included but should be installed at outlet.


C 4830

C 4830

Leonard Type L-9-E ½″ exposed thermostatic mixer, with cross handle volume control and lever handle temperature control.

C 4840

Leonard Type L-9-C ½″ concealed thermostatic mixer, with cross handle volume control and lever handle temperature control.


C 4840

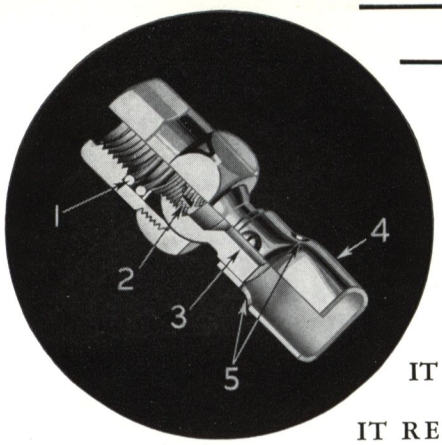
CAPACITY: 8 gallons per minute at 45 lbs. pressure.

NOTE: Check valves not included but should be installed in supply lines when mixers are piped to supply more than one fixture.

All exposed metal chromium plated

"ECONOMY" WATER SAVER SHOWER HEAD

Patented



IT SAVES WATER

IT COSTS LITTLE

IT CONTROLS SPRAY

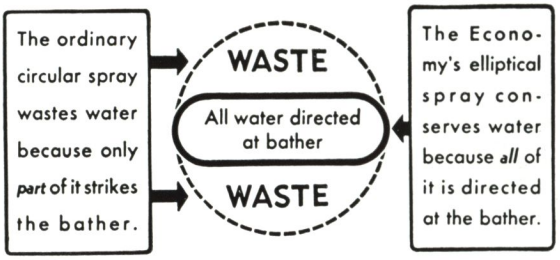
IT RESISTS CLOGGING

1. SPRING LOADED PACKING ON BALL JOINT—makes easy adjusting ball joint that will not corrode in one position.
2. REMOVABLE BRASS SPREADER—causes a swirling action and breaks up stream of water.
3. LARGE DIAMETER OUTLET—reduces the danger of clogging to a minimum.
4. SPRAY GUIDE—controls spread of shower spray. Elliptical shape of outlet forms an elliptical shower spray that is especially suited to showers installed over bathtubs—directs all of the water at the bather.
5. AERATOR FEATURE—causes air to be drawn into shower stream and gives a soothing effect on the bather.

C 4871

Economy non-clogging shower head with ball joint inlet for ⅜" and ½" pipe.





"REFRESHOR" EASY-CLEAN SHOWER HEADS

Patented

LOW INITIAL COST—LOW UPKEEP COST—ECONOMICAL IN THE USE OF WATER

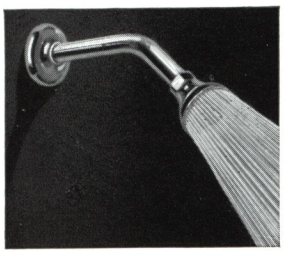
Easily cleaned—no tools required—turning face with thumb lugs opens head so that all foreign matter can be flushed out.

No small perforations to clog up—grooves form the shower streams.

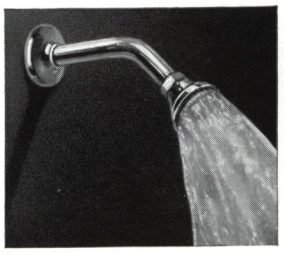
Spring adjusted packing for ball joint assures a water-tight connection and ease in adjusting spray direction.

Special arrangement for grooves produces two complete circles or rows of individual non-intersecting streams with same spread as ordinary head, assuring a refreshing and invigorating shower.

Face of shower has a stop which prevents its being removed. Face can be removed by taking head off shower arm.



Closed for Shower.



Open for Cleaning.



C 4875

Refreshor easy-clean shower head, with ½" female inlet.



C 4875-B

Refreshor easy-clean shower head, with ½" female, ball joint inlet.



C 4876

Refreshor easy-clean shower head, with volume regulator and ½" female inlet.

C 4877

Same as above except screw-driver volume control.



C 4876-B

Refreshor easy-clean shower head, with volume regulator and ½" female, ball joint inlet.



C 4879

Vandal proof wall type 4" shower head, with 30° from vertical spray angle and ½" female inlet.

C 4881

Vandal proof wall type *Refreshor* shower head, with 30° from vertical spray angle and ½" female inlet.



All exposed metal chromium plated

CRANE SHOWER HEADS AND SPRAYS



C 4858-A

Bent shower arm with wall flange for rigid head.

Sizes: ½″ and ¾″.

C 4858-B

Same for ball-joint head.



C 4860

Shower head with removable face.

Sizes: 4, 5 and 6″ x ½″—6 and 8″ x ¾″.

C 4861

Same except with ball-joint.



C 4863

Shower head with removable face, integral volume regulator and ball-joint.

Sizes: 4, 5 and 6″ x ½″.

C 4862

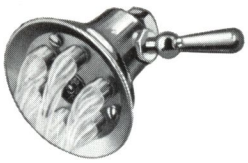
Same except less ball-joint.



C 4864

Adjustable ball-joint.

Sizes: ½ and ¾″.



C 4885

Flushing the head or Flood Shower.



C 4885

Normal Shower Spray.



C 4885

Needle Shower Spray.

C 4885

Patented

Self-cleaning *Anystream* shower head with lever handle spray control, ½″ female inlet.

NOTE: Available with loose-key control; also vandal-proof, wall type *Anystream* head available.



C 4890

Patented

Criterion volume regulator with ½″ female inlet and male outlet.

Adaptable to any ½″ inlet shower head, controlling the amount of water delivered to the head.



C 4910

3″ dia. brass shower spray with removable face, ajustable ball-joint, wall flange, gasket, ½″ nipple, washer and locknut.

C 4911-A

Same except less the wall flange, gasket, ½″ nipple, washer and locknut.



C 4912

3″ dia. brass shower spray with removable face, wall flange, gasket, ½″ nipple, washer and locknut.

C 4913-A

Same except less the wall flange, gasket, ½″ nipple, washer and locknut.



C 4928

1½″ dia. rubber bound cast brass shampoo spray with removable tailpiece for hose connection.



C 4930

Rubber bound shampoo spray with detachable rosewood handle and hose connection.

Diam. 2½″, 3″, 3½″ and 4″



C 4932

Rubber bound shampoo spray with hose connection.

Diam. 2½″, 3″, and 3½″.



Application of Strainer

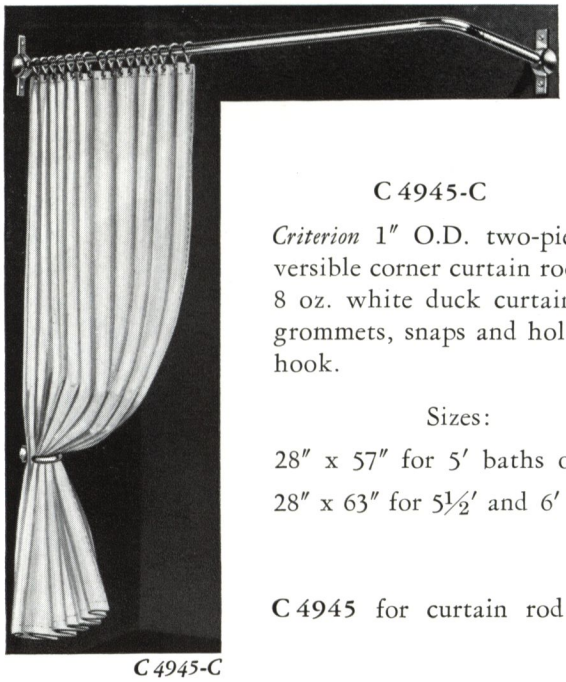
C 4940

Perforated sheet metal strainer for shower heads.

For head sizes: 4, 5, 6 and 8″.

All exposed metal chromium plated

CRANE SHOWER CURTAIN RODS AND TRIMMINGS



C 4945-C

C 4945-C

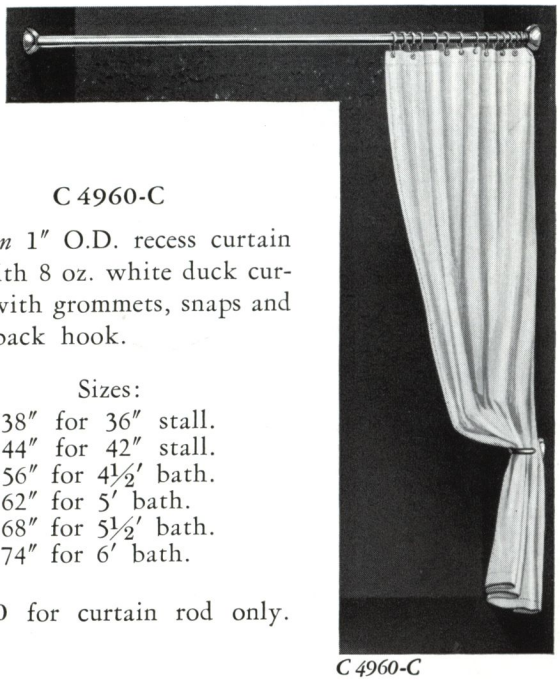
Criterion 1″ O.D. two-piece reversible corner curtain rod with 8 oz. white duck curtain with grommets, snaps and hold back hook.

Sizes:

28″ x 57″ for 5′ baths or less.

28″ x 63″ for 5½′ and 6′ baths.

C 4945 for curtain rod only.



C 4960-C

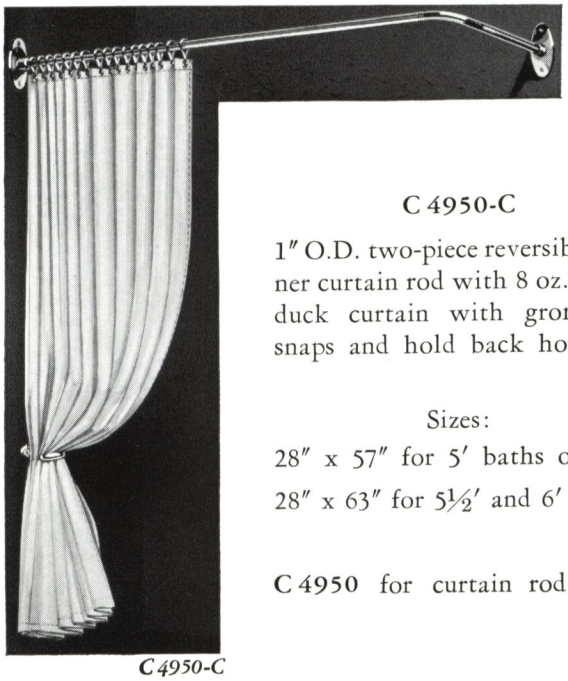
C 4960-C

Criterion 1″ O.D. recess curtain rod with 8 oz. white duck curtain, with grommets, snaps and hold back hook.

Sizes:

38″ for 36″ stall.
44″ for 42″ stall.
56″ for 4½′ bath.
62″ for 5′ bath.
68″ for 5½′ bath.
74″ for 6′ bath.

C 4960 for curtain rod only.



C 4950-C

C 4950-C

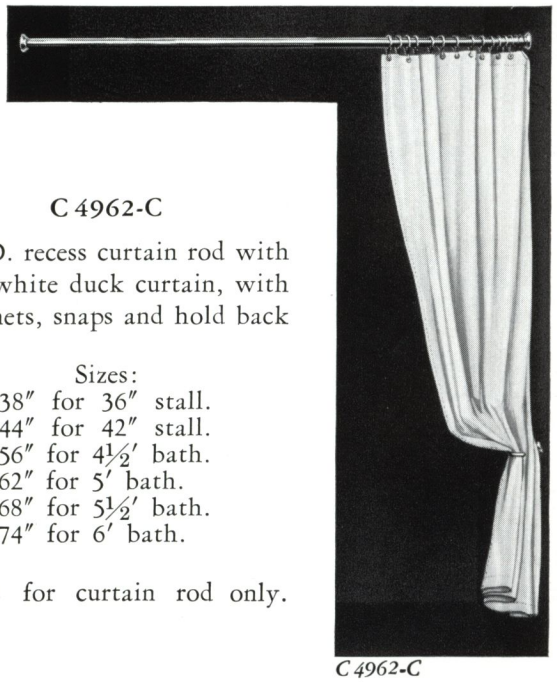
1″ O.D. two-piece reversible corner curtain rod with 8 oz. white duck curtain with grommets, snaps and hold back hook.

Sizes:

28″ x 57″ for 5′ baths or less.

28″ x 63″ for 5½′ and 6′ baths.

C 4950 for curtain rod only.



C 4962-C

C 4962-C

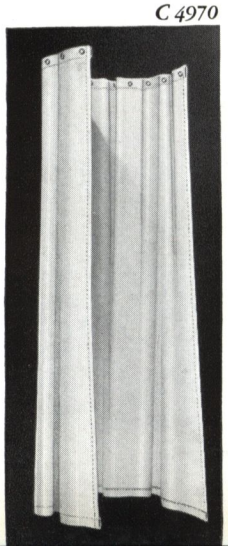
1″ O.D. recess curtain rod with 8 oz. white duck curtain, with grommets, snaps and hold back hook.

Sizes:

38″ for 36″ stall.
44″ for 42″ stall.
56″ for 4½′ bath.
62″ for 5′ bath.
68″ for 5½′ bath.
74″ for 6′ bath.

C4962 for curtain rod only.

C 4970



C 4970

72″ long, 8 oz. white duck shower curtain with chromium plated grommets.

Sizes:

42″ for 36″ stall.
48″ for 42″ stall.
60″ for 4½′ recess bath.
66″ for 5′ recess bath.
72″ for 5½′ recess bath.
78″ for 6′ recess bath.
99″ for corner bath.

CURTAIN HOLD BACK HOOKS



C 4990
Criterion pattern.



C 4984



C 4986

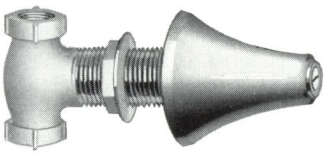


C 4985
Neuvogue pattern.



C 4980
Curtain snap hook.

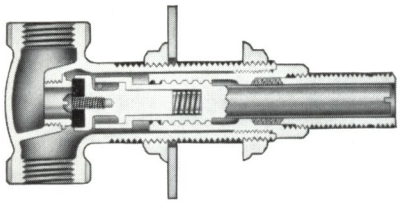
All exposed metal chromium plated



C 5037

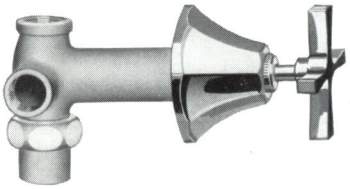
Concealed compression straight pattern stop with integral screw-down check feature.

Sizes: ½″ and ¾″.



The Screw-Down Check Feature

When the C 5037 stop is open, it automatically functions as a check valve as well as a volume control. Can be installed in horizontal or vertical position and all operating parts are removable from face of wall.

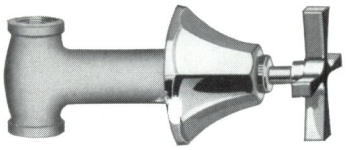


C 5062

Rival concealed by-pass pattern compression valve with ½″ I.P. female union inlet.

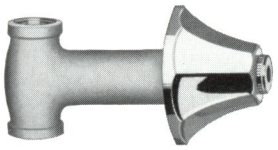
C 5063

Same less union, with ½″ I.P. female inlet.



C 5066

Rival concealed straight pattern compression valve with ½″ I.P. female inlet.



C 5068

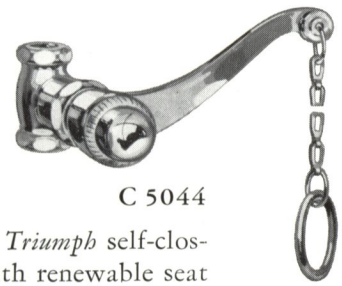
Rival concealed straight pattern, screw driver stop with ½″ I.P. female inlet.

C 5006



Dial thermometer graduated from 40° to 140° Fahrenheit with 3 color dial to indicate cold danger, safe, and hot danger zones; ½″ or ¾″ male union connection.

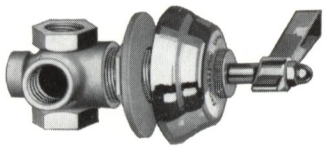
NOTE: Vertical type shown. Specify Vertical, Horizontal or 45° angle type as desired.



C 5044

Exposed ½″ *Triumph* self-closing valve with renewable seat and centerpiece unit, and pull chain with ring. Furnished for horizontal or vertical position as specified.

A very desirable valve for public installations where users are liable to leave compression valves open.



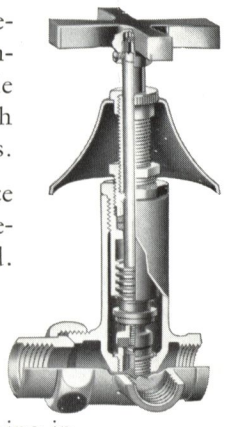
C 5051

Concealed ground key, spring loaded, self-adjusting transfer valve with one inlet and two outlets.

Sizes: ½″ and ¾″.

This transfer valve will deliver water from both outlets simultaneously or either outlet separately.

SECTION THRU SHOWER VALVE



All working parts are easily removable from face of wall, including screw-in type renewable seat and centerpiece unit which permits renewing stem threads.

Packing gland extends beyond face of wall—any leakage is noticeable before walls are damaged.

Handle and escutcheon easily removed when decorating walls — escutcheon assembly adjustable to meet 2¼ to 3¼″ roughing-in.

Swivel disc reduces wear on disc and seat—disc encased to prevent spreading in service.

All exposed metal chromium plated

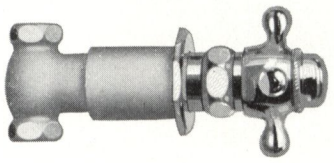


CRANE SANITARY DRINKING FOUNTAINS

CRANE drinking fountains are made in sizes and styles to meet every requirement. The representative group shown on the following pages, includes wall and pedestal types with receptors of vitreous china, porcelain enamel, glass and galvanized iron, as well as trimming units to convert old fountains into sanitary drinking fountains.

In the design of Crane fountains, utmost consideration has been given to absolute sanitation and the extraordinary use, if not actual abuse, that drinking fountains often receive. Every provision is made to guard the purity of water—drinking jets are raised above rim of the receptor to prevent back flow; lip guards prevent lips of the user from touching the drinking jet; and the angle stream, directing used water away from jet openings, prevents contamination of clean water. Crane fountains are easy to clean and keep clean; large wastes, protected by strainers, prevent clogging.

Municipalities and states have wisely enacted ordinances and laws relating to drinking fountains to guard health and prevent infection. Crane fountains are designed and built to conform to these codes.



The *Triumph* control valves furnished with Crane fountains are ball-bearing, self-closing type with renewable trimming units. They eliminate the usual waste of water where fountains have valves that can be left running. A high tension spring assures positive closing action which reduces wear on the renewable seat. A castellated regulating nut provides simple, yet ample adjustment to take up ordinary wear on the seat.

CRANE ANGLE-STREAM JETS FOR MAXIMUM SANITATION

PURFLO ANGLE-STREAM JET



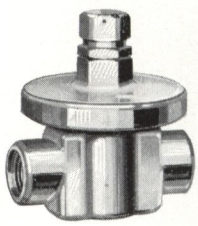
A new improved type, non-squirting jet with lip guard and slotted orifice with guard, approved by many health boards of cities and states. The orifice guard keeps foreign matter and mischievous fingers from direct contact with jet opening, preventing possible contamination of drinking water. The lip guard prevents user from touching lips on the orifice guard. Outlet of jet, when fitted to any Crane fountain, is above rim to prevent back flow.

NEWERA 3-STREAM ANGLE JET

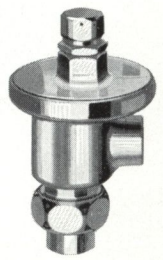


Three small jets of water are directed into a single angle stream for sanitation and a satisfying drink. Designed for rapid drainage of water from all surfaces and to permit easy cleaning. An integral shield prevents foreign matter from falling into jet openings and user from placing lips directly upon them. On Crane fountains, the jet openings extend above rim to prevent any possibility of back flow into the pure water supply line.

CRANE AUTOMATIC STREAM REGULATORS



Underfeeding or overshooting fountain streams are annoying to the user and cause damage to floors and walls. Crane Automatic Stream Regulators provide uniform, balanced water supply despite fluctuating pressure. No water is wasted to maintain a constant height stream, as all water entering regulator passes on to the jet, none discharging into waste line without first passing through the jet. Furnished in straight or angle pattern, $\frac{1}{4}''$ and $\frac{3}{8}''$ sizes, rough brass for concealed installations and chromium plated for exposed installations.



Fountains . . . . . Pages 35-2 to 37-1

Trimmings . . . . . Pages 37-2 to 38-2

CRANE SANITARY DRINKING FOUNTAINS

Patented

CORWITH—C 9040

Fine for public buildings and waiting rooms where pedestal type may be used.

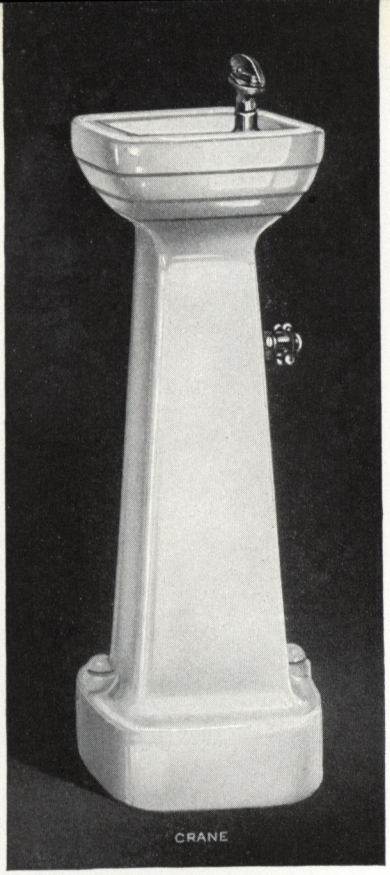
Fountain, *Corwith* vitreous china pedestal type, with integral strainer, china bolt caps and steel floor screws.

Supply, *Purflo* angle stream jet, with *Automatic Stream Regulator*, *Triumph* self-closing valve, loosekey stop, covering plate and ⅜″ inlet.

Waste, 1″ female brass outlet connection.

All exposed metal chromium plated.

Sizes: 28″ and 34″ high.



C 9040

C 9062



CORWITH—C 9062

An attractive all-purpose fountain where wall-hung type may be desired.

Fountain, *Corwith* vitreous china wall type, with integral strainer; brass screws with cap nuts and washers.

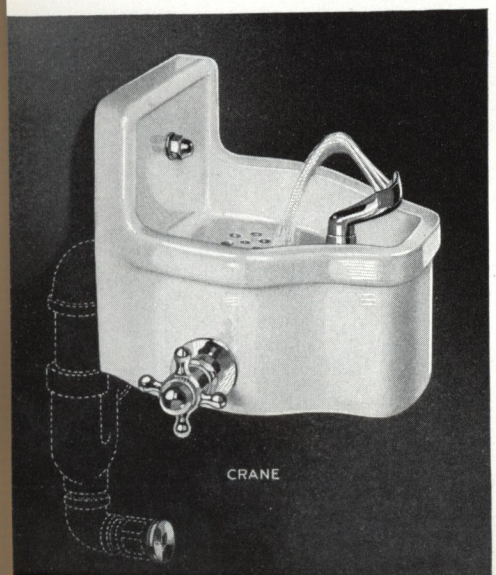
Supply, *Purflo* angle stream jet, with *Automatic Stream Regulator*, *Triumph* self-closing valve, covering plate and screw-driver stop with ⅜″ inlet.

Trap, C 9980, 1¼″ I.P.S. galvanized "P".

All exposed metal chromium plated.

Size: 12″ wd. x 13″ projection.

C9111



TELEPHONE—C 9111

Fountain, *Telephone* vitreous china wall type, with integral strainer and concealed wall plate with stud, washer and cap nut.

Supply, *Newera* angle stream jet, with *Automatic Stream Regulator*, *Triumph* self-closing valve, union and screw-driver stop with ⅜″ inlet.

Waste, 1¼″ male brass outlet connection, and cleanout cap.

All exposed metal chromium plated.

Size: 7½″ wd. x 10¼″ projection.

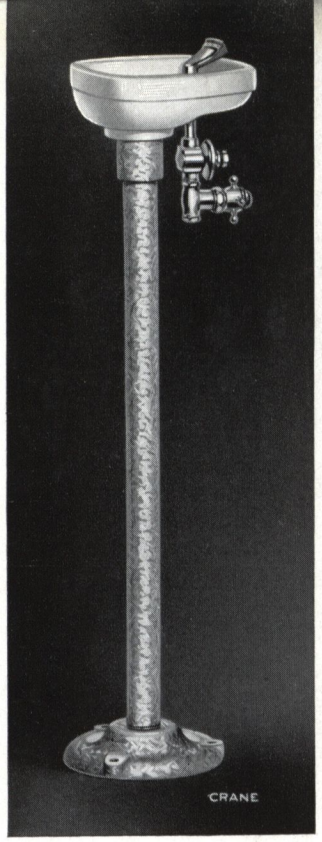
NOTE: Trap and fittings behind wall available but not included.

Dimensions . . . . . Page 38-3

Trimmings . . . . . Page 37-2

CRANE SANITARY DRINKING FOUNTAINS

Crane Thurstend fountains are especially adaptable for heavy duty in factories and public places.



C9155

THURSTEND—C 9155

FOUNTAIN: *Thurstend* vitreous china fountain with integral strainer.

SUPPLY: Chromium plated *Newera* angle stream jet with vandal-proof base, *Automatic Stream Regulator* and *Improved Triumph* self-closing valve with 3/8″ inlet.

WASTE: 1½″ galvanized pedestal and cast iron base with 1″ waste to floor.

Size: 10″ x 7½″ x 34″ high.

NOTE: Available with galvanized receptor and without stream regulator.

C9161

THURSTEND—C 9161

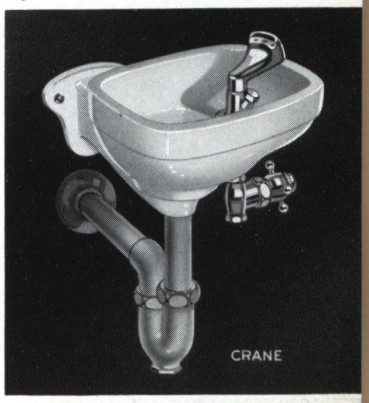
FOUNTAIN: *Thurstend* vitreous china fountain with integral strainer.

SUPPLY: Chromium plated *Newera* angle stream jet with vandal-proof base with regulating screw, and *Improved Triumph* self-closing valve with 3/8″ inlet.

WASTE: Porcelain enameled combination wall bracket and outlet connection with emery finish 1¼″ cast brass "P" trap.

Size: 10″ x 7½″

NOTE: Available with chromium plated trap; galvanized receptor; stream regulator.



C9164

THURSTEND—C 9164

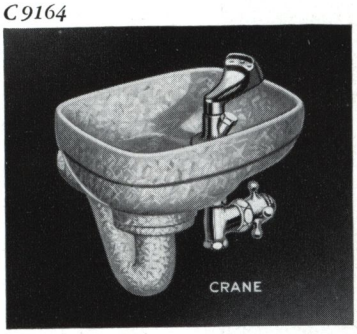
FOUNTAIN: *Thurstend* galvanized fountain with integral strainer.

SUPPLY: Chromium plated *Newera* angle stream jet with vandal-proof base with regulating screw, and *Improved Triumph* self-closing valve with 3/8″ inlet.

WASTE: 1¼″ I.P.S. galvanized "P" trap.

Size: 9″ x 6″

NOTE: Available with china receptor; stream regulator.



ERIE—C 9175

Patented

FOUNTAIN: *Erie* vitreous china fountain with integral strainer, concealed hangers and brass screws with cap nuts and washers.

SUPPLY: *Newera* angle-stream jets with 3/8″ supplies, *Automatic Stream Regulators*, *Improved Triumph* self-closing valves and loose key stops.

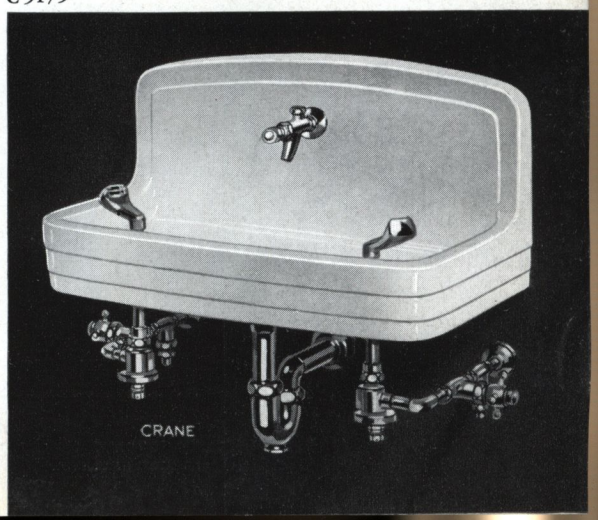
ICE WATER FAUCET: C 32950, 3/8″ push-button, self-closing ice water faucet.

WASTE: Brass waste fitting with 1¼″ cast brass "P" trap.

All exposed metal chromium plated.

Size: 24″ x 13″ x 12″ high

C9175



Dimensions . . . . . Page 38—3

Trimmings . . . . . Page 37—2

CRANE SANITARY DRINKING FOUNTAINS

Patented

ERIE—C 9194

FOUNTAIN: *Erie* vitreous china fountain with integral strainer, concealed hanger and brass screws with cap nuts and washers.

SUPPLY: *Newera* angle stream jet with ⅜″ supply, *Automatic Stream Regulator*, *Improved Triumph* self-closing valve and loose key stop.

WASTE: Brass waste fitting with 1¼″ cast brass "P" trap.

All exposed metal chromium plated.

Size: 12″ x 13″ x 12″ high

NOTE: Available with ice water faucet through back—like C 9227.



C 9194

ERIE—C 9203

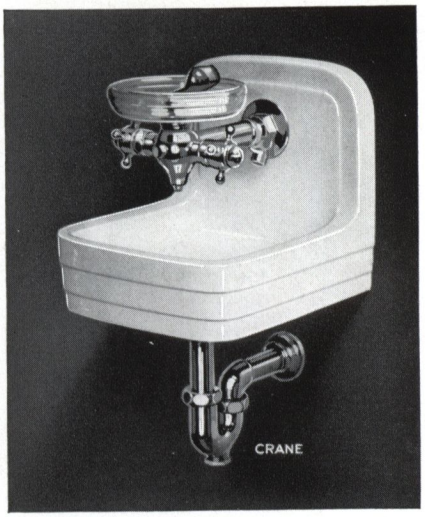
FOUNTAIN: *Erie* vitreous china fountain with integral strainer and brass screws with cap nuts and washers.

SUPPLY: Combination *Newera* angle stream jet and ice water faucet with glass receptor, *Improved Triumph* self-closing valves, exposed drain and ½″ female supply.

WASTE: Brass waste fitting with 1¼″ cast brass "P" trap.

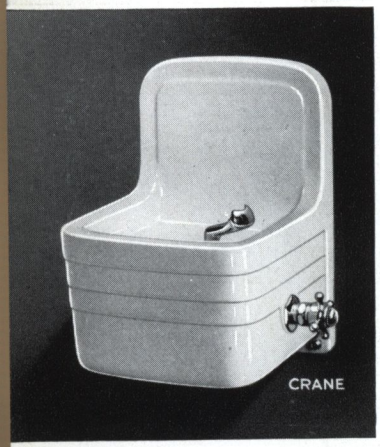
All exposed metal chromium plated.

Size: 12″ x 13″ x 12″ high.



C 9203

C 9215



OASIS—C 9215

FOUNTAIN: *Oasis* vitreous china fountain with integral strainer and trap housing, concealed hanger and brass screws with cap nuts and washers.

SUPPLY: *Newera* angle stream jet with *Automatic Stream Regulator*, *Improved Triumph* self-closing valve, covering plate, union and screwdriver stop with ⅜″ inlet.

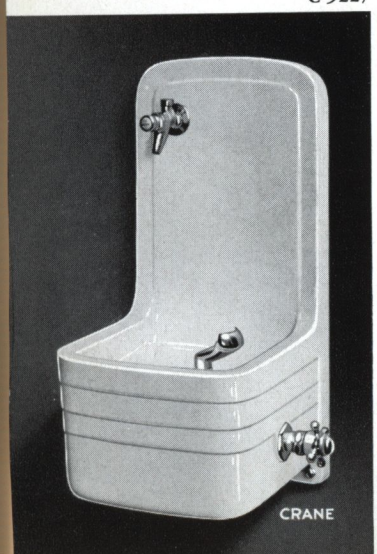
WASTE: 1¼″ I.P.S. galvanized "P" trap.

All exposed metal chromium plated.

Size: 12″ x 13″ x 17″ high.

NOTE: Available with ice water faucet through back—like C 9227.

C 9227



OASIS—C 9227

FOUNTAIN: *Oasis* vitreous china fountain with integral strainer and trap housing, concealed hanger and brass screws with cap nuts and washers.

SUPPLY: *Newera* angle stream jet with *Automatic Stream Regulator*, *Improved Triumph* self-closing valve, covering plate, union and screwdriver stop with ⅜″ inlet.

ICE WATER FAUCET: C 32950, ⅜″ push-button, self-closing ice water faucet.

WASTE: 1¼″ I.P.S. galvanized "P" trap.

All exposed metal chromium plated.

Size: 12″ x 13″ x 24″ high

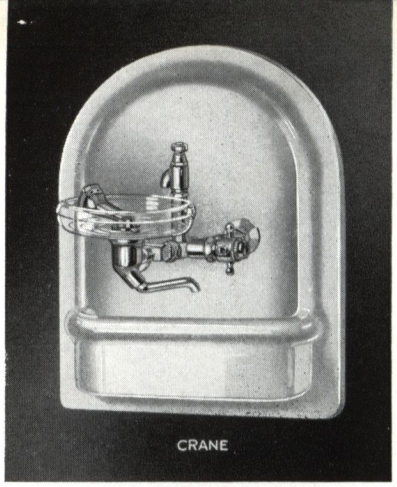
NOTE: Available less ice water faucet.

Dimensions . . . . . Page 38—3

Trimmings . . . . . Page 37—2

CRANE SANITARY DRINKING FOUNTAINS

Patented



C 9254

ARCUO—C 9254

FOUNTAIN: *Arcuo* vitreous china recessed fountain with integral strainer.

SUPPLY: Combination *Newera* angle stream jet and push-button ice water faucet with glass receptor, *Improved Triumph* self-closing valve, *Automatic Stream Regulator* and ⅜″ female supply.

WASTE: Brass waste fitting with 1¼″ O.D. tailpiece.

All exposed metal chromium plated.

Size: 14″ wd. x 18″ ht. x 4½″ projection.



C 9261

CRISTAL—C 9261

FOUNTAIN: *Cristal* vitreous china recessed fountain with integral strainer and brass screws with cap nuts and washers.

SUPPLY: *Newera* angle stream jet with *Automatic Stream Regulator*, *Improved Triumph* self-closing valve, covering plate, union and screw-driver stop with ⅜″ inlet.

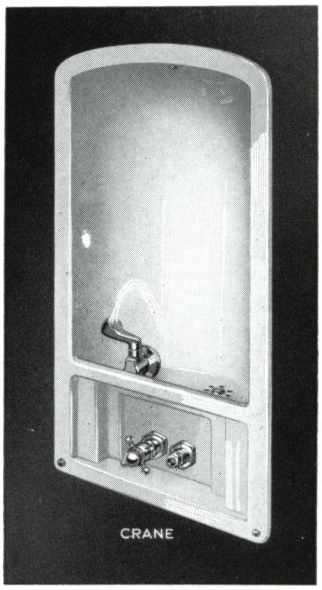
WASTE: Brass waste fitting with 1¼″ O.D. tailpiece.

All exposed metal chromium plated.

Size: 14″ wd. x 25⅝″ ht. x 7″ projection.

NOTE: Available with ice water faucet through back—like C 9227.

C 9268



CORRIDOR—C 9268

FOUNTAIN: *Corridor* vitreous china recessed fountain with integral strainer and screws with washers.

SUPPLY: *Newera* angle stream jet with *Automatic Stream Regulator*, *Improved Triumph* self-closing valve, loose key stop and ⅜″ female supply.

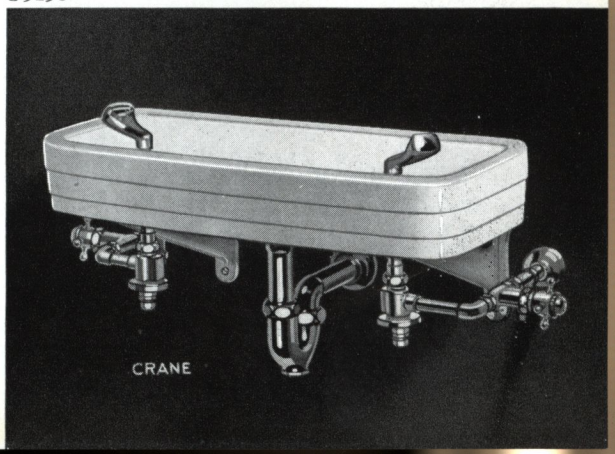
WASTE: Brass waste fitting with 1¼″ O.D. tailpiece and slip joint with friction ring and washer.

All exposed metal chromium plated.

Size: 16″ wd. x 30″ ht.

NOTE: Available with ice water faucet through back—like C 9227.

C 9298



ONTARIO—C 9298

FOUNTAIN: *Ontario* vitreous china fountain with integral strainer and porcelain enameled semi-concealed brackets with screws.

SUPPLY: *Newera* angle stream jets with ⅜″ supplies, *Automatic Stream Regulators*, *Improved Triumph* self-closing valves and loose key stops.

WASTE: Brass waste fitting with 1¼″ cast brass "P" trap.

All exposed metal chromium plated.

Size: 24″ x 13″ projection.

Dimensions . . . . . Page 38—4

Trimmings . . . . . Page 37—2

ALTRURIA—C 9320

FOUNTAIN: *Altruria* enamel on cast iron multiple fountain with painted brackets.

SUPPLY: *Newera* angle stream jets with *Improved Triumph* self-closing valves, loose key stop and ⅜″ supply to wall with escutcheon.

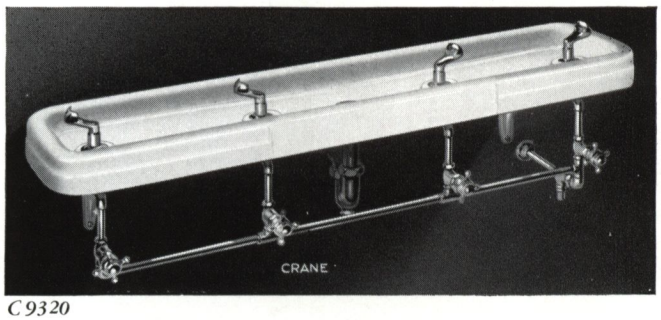
WASTE: Open strainer with 1¼″ cast brass "P" trap.

Sizes: 26″ x 12″, 42″ x 12″ and 54″ x 12″.

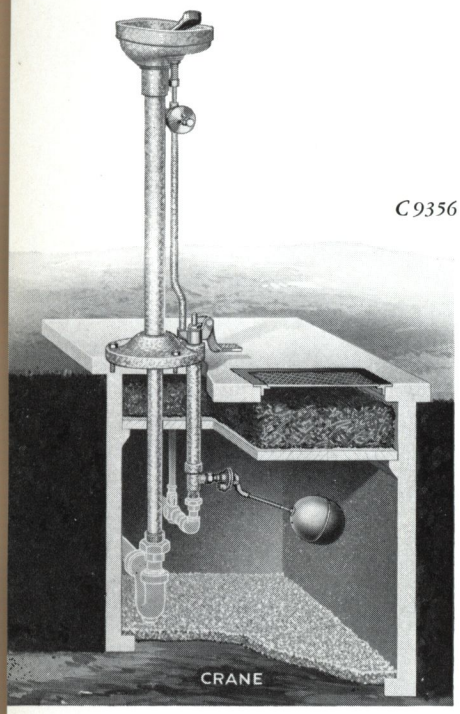
Jets: 2 3 4

All exposed metal chromium plated.

Note: Available with galvanized supply with chromium plated jets, valves and stop if specified.



C 9320



C 9356

THURSTEND SELF-DRAINING—C 9356

For outdoor locations which may be subjected to freezing temperatures. Valve closes when pedal is released and all water accumulated above valve automatically drains into the pit.

FOUNTAIN: *Thurstend Self-Draining* galvanized fountain with integral waste strainer.

SUPPLY: *Newera* angle stream jet with vandal proof base, rough brass *Automatic Stream Regulator*, pedal action supply valve and float operated back-flow check valve.

WASTE: 1½″ galvanized pedestal and cast iron base with 1″ waste pipe.

Size: 9″ x 6″

NOTE: This fountain should be installed over a pit suitably insulated to prevent freezing. Manhole and pit not furnished.

C 9392



WATER COOLER—C 9392

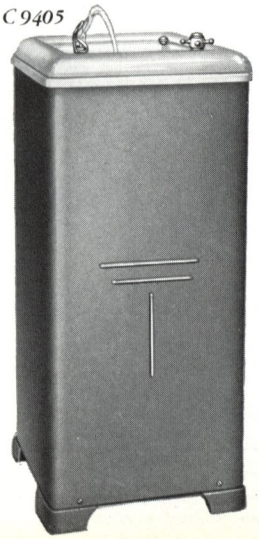
FOUNTAIN: Water cooler fountain with cork insulated tank, airtight cover, painted iron pedestal and china receptor—20″ dia. x 40″ high.

SUPPLY: Chromium plated angle stream jet with automatic stream regulator, self-closing valve, ⅜″ supply and ½″ cooling coil.

WASTE: Cast iron trap with 1″ I.P. outlet.

ICE CAPACITY: Approximately 1 pound per capita per day.

C 9405



ELECTRIC WATER COOLER—C 9405

FOUNTAIN: Porcelain enameled combination receptor and cabinet top, with steel cabinet, bonderized and finished in metallic gray—18″x18″x40½″ high.

SUPPLY: Chromium plated angle stream jet with automatic stream regulator, self-closing valve and ⅜″ inlet; also ⅜″ outlet for extra fountain.

COOLER: Two-cylinder water cooled compressor with 3 gal. storage tank, thermostat control and ⅓ H.P. motor.

WASTE: 1¼″ I.P. outlet (Trap not furnished)

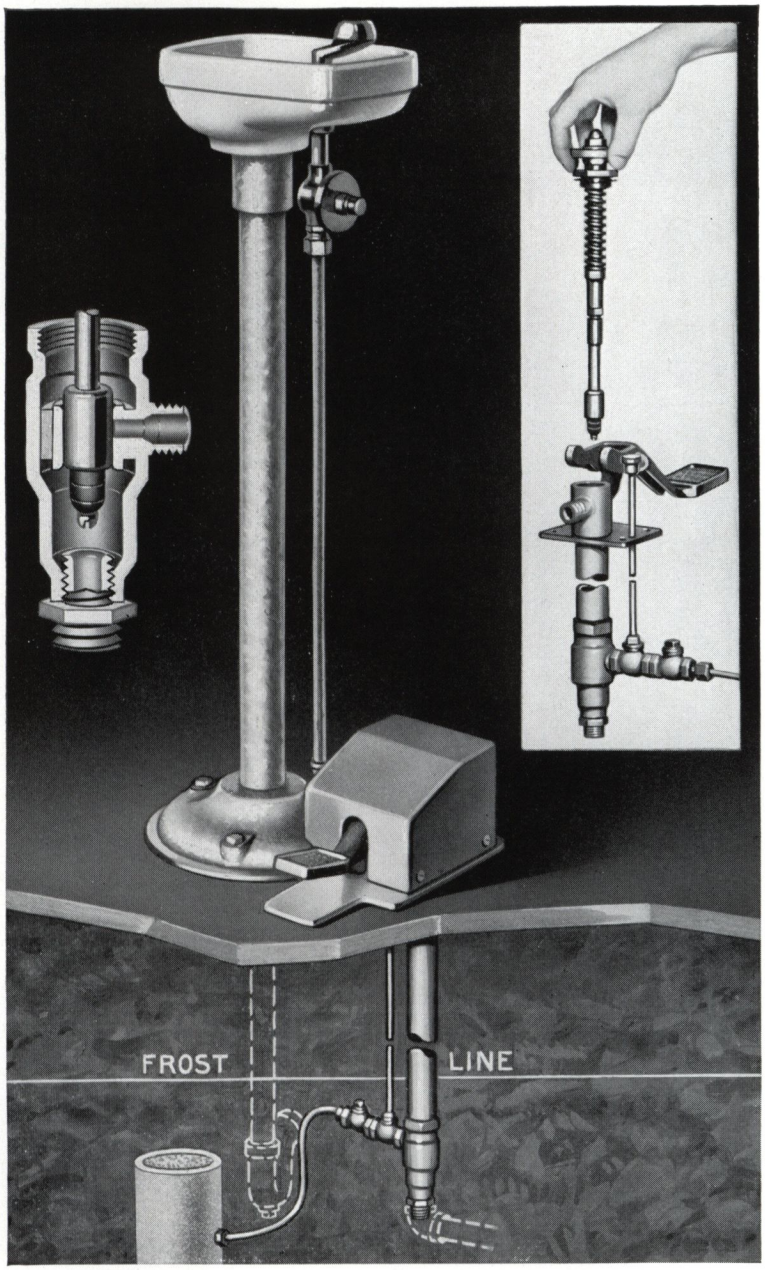
Dimensions . . . . . Page 38—4

Trimmings . . . . . Page 37—2

"THURSTEND" FREEZE-PROOF DRINKING FOUNTAIN C 9360

Especially desirable for golf courses, school yards, cemeteries, play grounds, and other outdoor locations which may be subjected to freezing temperatures.

COMPLIES WITH U. S. GOVERNMENT AND LOCAL HEALTH REQUIREMENTS



C 9360

STANDARD SIZES

Bury	18″	36″	48″	60″
Ship. Weight, Approx.	65 lbs.	65 lbs.	70 lbs.	70 lbs.

Valve must be installed below frost line.

No Pit Required—Easy to Install

So simply and durably constructed that once installed, it should require no attention for many years to come, regardless of weather conditions.

Install It—Forget It

Not necessary to remove fountain or shut off water supply during periods of freezing temperatures. When pedal is at rest, valve is automatically shut off and water completely drains from fountain to beyond freezing depth.

Not necessary to dig up to get at valve for repairs. A treated leather "shut-off" ball is guaranteed for five years, and is quickly and easily replaced by unscrewing pedal cap to lift out the entire plunger unit, as shown in cut at left.

Pure Drinking Water Assured

At drain opening from valve, a vermin proof arrangement of two ball checks with screened air vent, provides absolute protection against back flow of ground water.

Specification

THURSTEND FREEZE PROOF—C 9360

FOUNTAIN: *Thurstend*, vitreous china fountain with integral strainer.

SUPPLY: *Newera*, chromium plated angle stream jet with vandal proof base, chromium plated *Automatic Stream Regulator*, ½″ galvanized supply; brass self-draining pedal action supply valve with backflow ball checks and brass air vent pipe with screened cap; galvanized, vandal proof cover.

WASTE: Galvanized, 1½″ pedestal and cast iron base, with 1″ waste pipe.

NOTE: When installing this fountain, drainage should be provided by simply burying a length of drain tile, filled with gravel, below frost line, and connecting with the copper drain tube as illustrated.

"THURSTEND-SELF-DRAINING" PEDESTAL DRINKING FOUNTAIN

The new Crane ***Thurstend Self-Draining*** pedestal drinking fountain was designed especially for outdoor installation in locations that may be subjected to freezing temperature. It is particularly suitable for public playgrounds, parks, comfort stations, gasolene filling stations and similar places. A slight pressure on the pedal opens the supply valve. As soon as the pedal is released the valve closes and all the water accumulated above the valve automatically drains into the pit.

C 9356

Fountain: Crane ***Thurstend Self-Draining*** galvanized rectangular drinking fountain receptor with integral waste strainer.

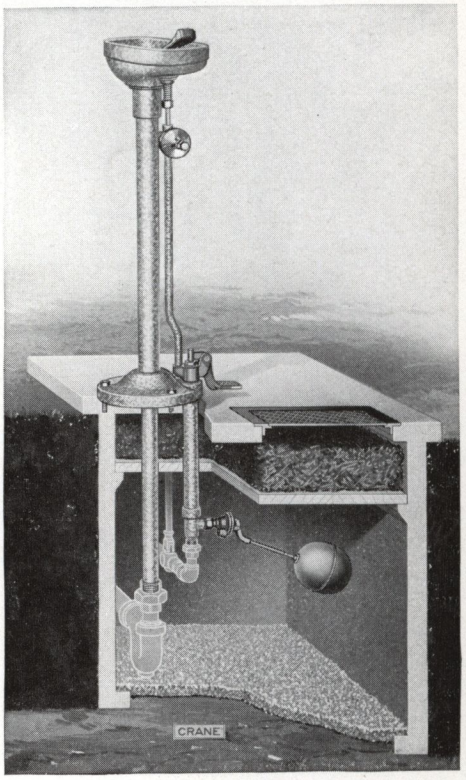
Supply: Crane chromium plated ***Newera*** three stream angle bubbler above rim of receptor with vandal-proof base, rough brass ***Automatic Stream Regulator,*** pedal operated supply valve with spring loaded packing and renewable seat, float operated safety back-flow valve to prevent water in pit from flowing back into supply riser.

Waste: Galvanized waste with 1½-inch pedestal, cast iron base and 1-inch waste pipe.

DIMENSIONS

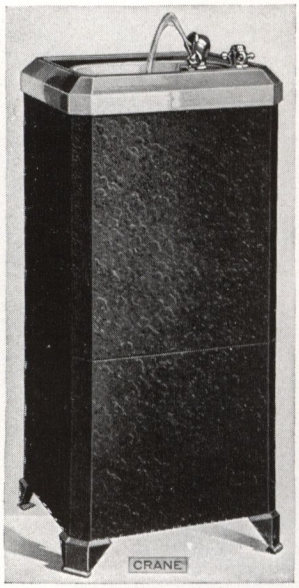
Size of receptor	Inches	9x6
Height, ground to rim of receptor	Inches	30
Bury in ground; supply inlet to ground line	Inches	30
Size of pit, minimum	Inches	24x24
Depth of pit, minimum	Inches	36
Shipping weight, approx.	Pounds	40

NOTE: The ***Thurstend Self-Draining*** fountain is arranged for installation over a pit. Manhole and pit are not furnished. The pit should be suitably insulated to prevent freezing.



C 9356

CABINET FOUNTAIN WITH ELECTRIC WATER COOLER



C 9405

C 9405

Fountain: White porcelain enameled cast iron combination receptor and cabinet top, with baked olive green crinkle-enameled cabinet.

Supply: Chromium plated angle stream bubbler above rim; automatic stream regulator; self-closing valve; ⅜-inch inlet; also ⅜-inch cold water connection for extra fountain.

Cooler: Slow speed, vibration dampered two-cylinder air cooled compressor; 5-quart storage tank with tinned copper cooling coil; thermostatic control in direct contact with outlet water.

Motor: ⅓ horse power capacitator type motor for 110 volt, 60 cycle, A. C., single phase current.

Waste: 1¼-inch female outlet. Trap is not furnished.

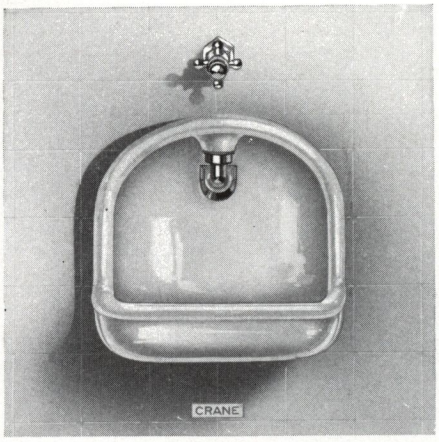
Trap and special motors furnished on order only. This fountain with air-cooled compressor is suitable for cooler climates. A similar fountain with water cooled compressor is available for warmer climates.

DIMENSIONS

Size of receptor	Inches	16x18
Height, to top of receptor	Inches	39
Capacity, per hour	Gallons	5.7
Shipping weight, approx.	Pounds	260

Capacity of cooler is based on water cooled from 85° to 50° Fahrenheit, with air at 90°, and will vary according to amount of water wasted.

CUSPIDORS



C 9800

Cuspidor: Crane ***Gymnasium*** vitreous china recessed cuspidor.

Supply: C 9600 ***Triumph*** ball-bearing self-closing valve with renewable seat; top inlet fan flush spreader. ⅜-inch female supply connection.

Strainer: C 33856 brass open waste strainer with 1¼" O. D. tailpiece.

Finish: Chromium plate.

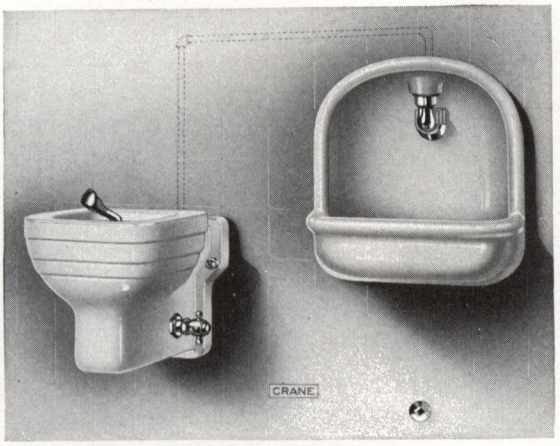
Concealed trap, fittings and cleanout are not included but can be furnished if desired.

DIMENSIONS

Width, over all	**Inches**	16¼
Height	**Inches**	17½
Extension, wall to front	**Inches**	4¼
Recess in wall	**Inches**	4¼
Shipping weight, approx.	**Pounds**	60



C 9806



C 9803

Fountain: Crane ***Corwith*** vitreous china wall drinking fountain.

Supply: ***Newera*** three stream angle bubbler above rim; brass strainer; ***Crane Automatic Stream Regulator; Triumph*** ball-bearing self-closing valve with by-pass; screw-driver stop with ⅜-inch female iron pipe inlet. Screw-driver stop with ⅜-inch female supply connection for cuspidor.

Waste: C 9981, 1¼-inch I.P.S. galvanized "P" trap.

Screws: C 14502 brass screws with cap nuts and washers.

Cuspidor: Crane ***Gymnasium*** vitreous china recessed cuspidor.

Spreader: Top inlet fan flush spreader.

Strainer: C 33856 brass open waste strainer with 1¼-inch O. D. tailpiece.

Finish: Chromium plate.

Concealed trap, fittings and clean-out for cuspidor are not included, but can be furnished if desired.

Note: Combination is arranged to have cuspidor flush simultaneously when fountain is used.

For dimensions and shipping weights, refer to C 9060 and C 9800.

C 9806

Cuspidor: Crane ***Y.M.C.A.*** vitreous china recessed cuspidor, to build in flush with wall.

Supply: C 9610, lock-shield loose-key stop; top inlet fan flush spreader; ⅜-inch female supply inlet.

Strainer: Brass beehive strainer with 1¼-inch O. D. tailpiece.

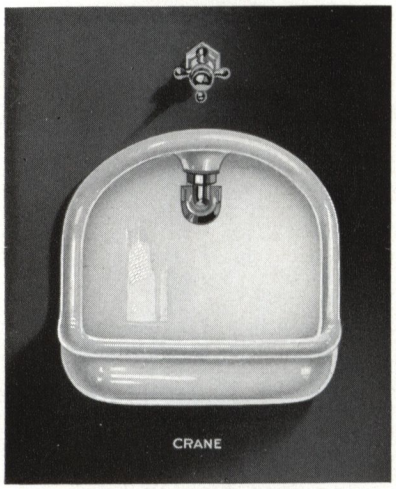
Finish: Chromium plate.

Concealed trap, fittings and cleanout are not included but can be furnished if desired.

DIMENSIONS

Width, overall	**Inches**	17¼
Height	**Inches**	25¾
Recess in wall	**Inches**	8⅜
Opening in Cuspidor	**Inches**	12¼x18
Shipping weight, approx.	**Pounds**	95

Crane Cuspidors are especially desirable for gymnasiums and swimming pools, and have found wide acceptance in eye, ear, nose and throat clinics and tuberculosis wards.



C 9800

GYMNASIUM—C 9800

CUSPIDOR: *Gymnasium* vitreous china recessed cuspidor.

SUPPLY: C 9600, *Improved Triumph* self-closing valve with 3/8" I.P. inlet, and top inlet fan flush spreader.

WASTE: C 33856 brass open strainer with 1¼" O.D. tailpiece.

All exposed metal chromium plated.

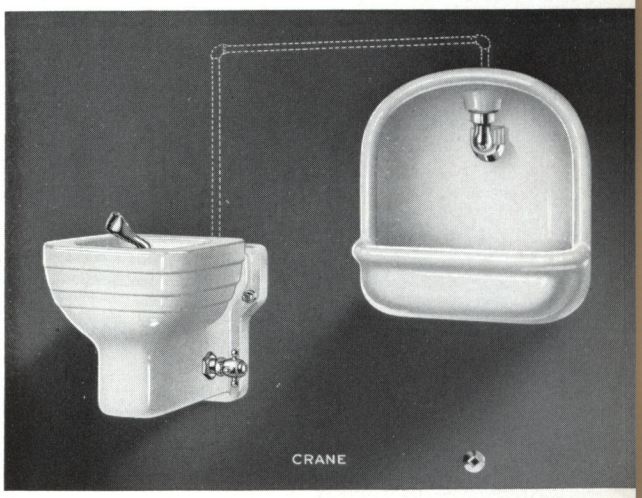
Size: 16¼" wd. x 17½" ht. x 4¼" projection.

NOTE: Concealed trap with fittings and cleanout available but not included.

C 9803

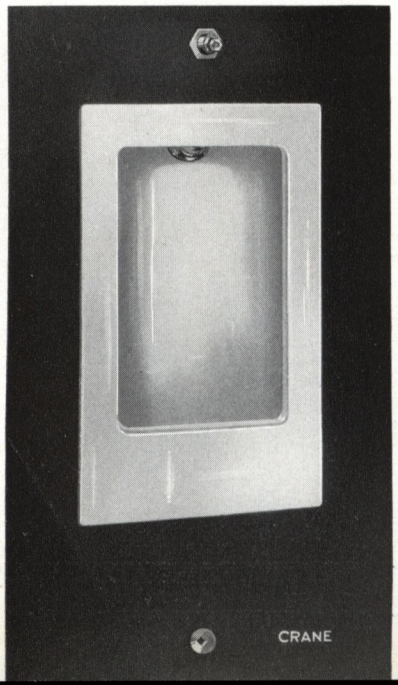
This combination is arranged to have cuspidor flush simultaneously when fountain is used and consists of a regular C 9060 *Corwith* fountain except with by-pass pattern *Improved Triumph* valve and a regular C 9800 *Gymnasium* cuspidor less the C 9600 valve.

All exposed metal chromium plated.



C 9803

C 9806



Y. M. C. A.—C 9806

CUSPIDOR: *Y.M.C.A.* vitreous china recessed cuspidor, to build in flush with wall.

SUPPLY: C 9610, lock-shield loose-key stop with 3/8" I.P. inlet, and top inlet fan flush spreader.

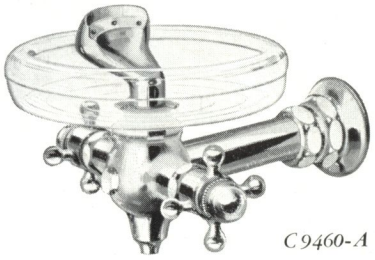
WASTE: C 9806, brass beehive strainer with 1¼" O.D. tailpiece.

Size: 17¼" wd. x 25¾" ht.

NOTE: Concealed trap with fittings and cleanout available but not included.

Dimensions . . . . . Page 38—4

Trimmings . . . . . Page 37—2

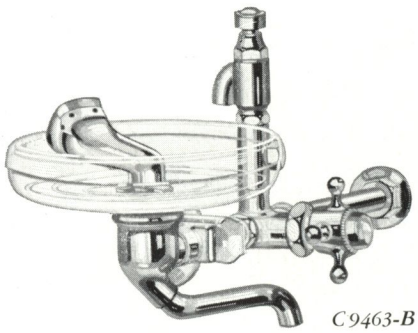


C 9460-A

Whitney—C 9460-A

Combination *Newera* angle stream jet and ice water faucet with 7″ glass *receptor, *Improved Triumph* self-closing valves, concealed regulating screw; ¼″ female supply and 1¼″ female waste connections.

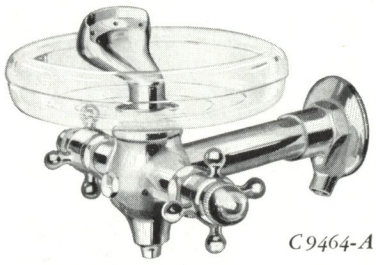
*Available with 7″ metal receptor.



C 9463-B

C 9463-B

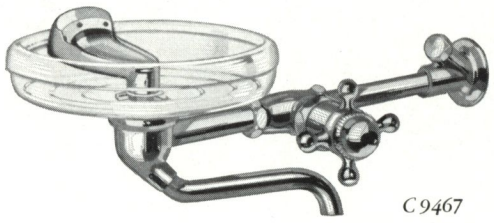
Combination *Newera* angle stream jet and push-button self-closing ice water faucet with 7″ glass *receptor, *Improved Triumph* self-closing valve, concealed regulating screw and ⅜″ female supply connection.



C 9464-A

C 9464-A

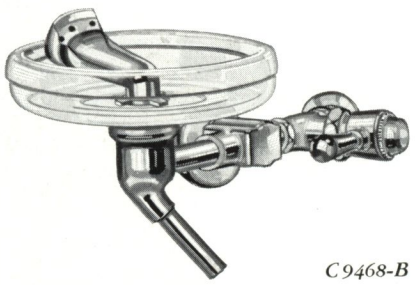
Combination *Newera* angle stream jet and ice water faucet with 7″ glass *receptor, *Improved Triumph* self-closing valves, concealed regulating screw, exposed drain and ½″ female supply connection.



C 9467

C 9467

Newera angle stream jet with 7″ glass *receptor, *Improved Triumph* self-closing valve, concealed regulating screw and ⅜″ female supply connection.



C 9468-B

C 9468-B

Newera angle stream jet with 7″ glass *receptor, *Improved Triumph* self-closing valve, *Automatic Stream Regulator* and ⅜″ female supply connection.

Fountains . . . . . Pages 35-2 to 37-1

PRICE LIST APPLYING TO No. 675-C CATALOG

Prices given below will be helpful in approximating costs, or comparing the cost of one fixture with another. They do not include piping, labor, and other installation costs.

ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE	
	SHOWER DOORS	24x72	27x78
25-1	C 3950 L or R, Door with Grille, Chrom. Plated	$93.80	$102.75
		24x64	27x70
	C 3952 L or R, Door without Grille, Chromium Plated	$75.95	$84.80
	SHOWERS	Nickel Plated	Chrom. Plated
	C 4003—EB, Shower only	.....	$89.40
	C 4003—EB, Shower only, Design 40	.....	112.50
	C 4003—EB, Shower only, Design 50	.....	87.50
25-2	C 4006—BB, Shower only	.....	86.45
	C 4015—BB, Shower only	.....	71.75
26-1	C 3866—B, *Rival Deviator* Combination..(C3868)	.....	14.00
	C 3866—BU, *Rival Deviator* Combination (C3869)	.....	14.00
	C 3876—B, *Deviator* Combination	.....	18.50
	C 3881—B, *Deviator* Combination	.....	18.50
	C 4240—NB, *Imp. Telsa* Comb. Complete	.....	43.90
	If less Curtains .....Deduct	.....	6.05
	C 4344—B, *Addenda* (Overrim)	10.80	11.30
	C 4345—B, *Addenda* (Top Nozzle)	11.75	12.40
	C 4348—B, *Addenda* (Faucet) less rod	13.75	14.45
	C 4349—BA, *Addenda* (Faucet) as Described	25.00	26.95
	For two 8-oz. Curtains and Hooks .....Add	5.40	5.70
26-2	C 4261—B, *Rival*, two-valve type.....(C4273)	.....	9.30
	C 4350, Portable, Complete	19.40	21.55
	C 4364—B, Mixing Type, with stops	.....	21.80
	C 4375—BA, Mixing Type	.....	17.30
	C 4378—B, with C 4875—B *Refreshor* Head	.....	16.25
	C 4375—B, Design 40	.....	32.25
	Design 50	.....	25.55
	C 4392—B, *Rival*, Mixing Type	11.25	11.90
	C 4393—B, *Rival*, Mixing Type	13.05	13.75
27-1	C 4381, Prison Shower	25.00	26.25
	C 4400—BU, Design 40	.....	22.55
	Design 45	.....	31.55
	Design 50	.....	16.40
27-1	C 4403—B, Two-valve Type	.....	14.05
	C 4408, *Y. M. C. A.* Shower	Price on Appl.	
	C 4420—BA, with *Leonard* Valve	.....	116.70
	C 4424—B, with *Powers* Valve	.....	67.15

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE	
	EXPOSED SHOWERS	Nickel Plated	Chrom. Plated
28-1	C 4437—G, Mixing, with stops	.....	$31.65
	C 4553—G, same, with ceiling supplies	.....	36.50
	C 4464—G, *Imp. Telsa*, two-valve	.....	16.50
	C 4520—G, same, with floor supplies	.....	23.25
	C 4650—F, Rough, Mixing	$14.45	.....
	C 4670—FN, Rough—for ceiling supplies	7.15	.....
	C 4671—FN, Rough—for floor supplies	7.15	.....
29-1	C 4680—FN, Rough	7.15	.....
	C 4686—F, Rough	7.15	.....
	C 4690—A, Self-Closing, wall type	9.90	11.00
	C 4692—A, Self-Closing, ceiling type	8.40	9.40
	C 4720—A, Battery Shower—Details must be furnished.		
	C 4742—G	15.80	16.70
	C 4750—B	13.75	14.45
	SHOWER COMPARTMENTS	Weight Pounds	Price
29-2	C 4706, "*V. P. Weisway*," Complete as Descr. —F.O.B. Elkhart, Ind.: 32"x32"x80"	320	$169.50
	36"x36"x80"	350	184.50
	C 4707, "*Marine*," Complete as Descr.—F.O.B. Chicago: 32"x32"x76"	480	78.50
	36"x36"x76"	525	83.50
	C 4711, "*One-Piece*," Complete as Descr.—F.O.B. Chicago: 28"x40"x72"	340	78.50
	32"x32"x72"	320	73.50
	36"x36"x72"	360	78.50
	C 4712, "*Weisway* Standard," Comp. as Descr. —F.O.B. Elkhart, Ind.: 32"x32"x76"	210	78.50
	36"x36"x76"	250	83.50
29-3	C 4708, "*Junior*," Complete as Descr.—F.O.B. Chicago: 30"x30"x76"	160	34.85
	C 4709, "*Skipper*," Complete as Descr.—F.O.B. Chicago: 30"x30"x76"	300	34.85
	C 4713, "*Cottager*," Complete as Descr.—F.O.B. Elkhart, Ind.: 30"x30"x76"	170	34.85
	LEWIS SHOWER CASING	SIZE	PRICE
29-4	C 4714, F.O.B. Joliet, Ill.	36x36	$75.00
		36x42	80.00
		42x36	80.00
		42x42	85.00
	If Outside of Casing is to be furred, add for each side	.....	10.00
	LEWIS SHOWER PAN		
	C 4719, F.O.B. Joliet, Ill.	36x36	20.00
		36x42	21.00
		42x36	21.00
		42x42	22.00

PRICE LIST APPLYING TO No. 675-C CATALOG

Prices given below will be helpful in approximating costs, or comparing the cost of one fixture with another. They do not include piping, labor, and other installation costs.

ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

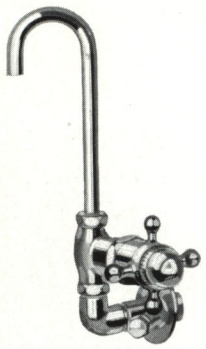
PAGE	PLATE NUMBER AND DESCRIPTION	SIZE	PRICE
	SHOWER RECEPTORS		
29-5	C 5090, *Rubberceptor*	.....	$31.90
	Aluminum Finishing Strips.....Each	.....	3.20
	C 5080, Porcelain	36x36	48.15
	(F.O.B. Trenton, N. J.)	42x42	67.40

PAGE	PLATE NUMBER AND DESCRIPTION	Rough	Chrom. Plated
	***CRANE* MIXING VALVE**		
30-1	C 4788, Exposed: ½"	$11.90	$16.70
	¾"	17.30	23.90
	C 4792, Concealed: ½"	.....	13.65
	¾"	.....	17.80
		Nickel Plated	
	C 4802, *Rival*, Concealed: ½"	8.20	8.60
	THERMOSTATIC MIXING VALVES	**F.O.B.**	**Factory**
30-2	C 4830, *Leonard*, Exposed (L-9-E)	.....	82.00
	C 4840, *Leonard*, Concealed (L-9-C)	.....	87.00
	C 4834, *Powers*, Exposed (Type "TE")	.....	62.00
	C 4836, *Powers*, Concealed (Type "TC")	.....	67.50
	WATER CONTROLLERS	**Rough**	
	C 4850, *Powers*—No. 1, All Brass	84.40	93.75
	3, All Brass	93.75	107.80
	4, All Brass	126.55	140.65
	5, All Brass	145.30	159.40
	6, All Brass	196.90	210.95
	6, Iron Body	173.45	.....
	For Mounting Bracket for Nos. 1, 3 and 4 Controllers.....Add	9.40	9.40
	C 4831, *Leonard*—Type B-5	119.00	135.00
	B-10	119.00	135.00
	B-20	134.00	150.00
	B-40	167.00	190.00
	B-60	192.00	215.00
	B-120	265.00	295.00
	B-200	320.00	350.00
	Type MB-5	97.00	110.00
	MB-10	97.00	110.00
	MB-20	106.00	120.00
	MB-40	143.00	155.00
	MB-60	154.00	170.00
	SHOWER TRIMMINGS "*REFRESHOR*" SHOWER HEADS	**Nickel Plated**	**Chrom. Plated**
31-1	C 4875, Plain	$1.50	$1.55
	C 4875—B, with Ball Joint	2.10	2.20
	C 4876, with Volume Regulator	2.50	2.60
	C 4876—B, with Vol. Reg. and Ball Joint	3.05	3.25
	C 4877, with Screw-driver Slot	2.50	2.60

PAGE	PLATE NUMBER AND DESCRIPTION	Size Inches	PRICE Nickel Plated	PRICE Chrom. Plated
	SHOWER TRIMMINGS			
32-1	C 4858—A, Arm, for Rigid Head	½	$ 0.95	$ 1.00
		¾	2.30	2.45
	C 4858—B, Arm, for Head w/ B. J	½	.75	.80
		¾	2.05	2.20
	C 4860—A, Head, Plain	4x½	*1.45	.....
		4x½	1.80	1.85
	*ROUGH	5x½	2.55	2.70
		6x½	4.60	4.80
		6x¾	4.60	4.80
		8x¾	13.35	14.00
	C 4861, Head, with Ball Joint	4x½	2.35	2.50
		5x½	3.10	3.30
		6x½	5.15	5.45
		6x¾	5.85	6.20
		8x¾	14.70	15.50
	C 4862—A, Head, w/ Vol. Reg	4x½	2.85	2.95
		5x½	3.60	3.75
		6x½	5.70	5.90
	C 4863, Head, with Volume Regulator and Ball Joint	4x½	3.45	3.55
		5x½	4.20	4.40
		6x½	6.25	6.50
	C 4864, Ball Joint	½	1.35	1.45
		¾	1.70	1.75
	C 4870, Design 40 Head	5x½	Price on Appl.	
	C 4885, *Anystream* Head	½	.....	10.00
	C 4905, Tubular Head	6x½	7.70	8.15
		6x¾	7.70	8.15
		8x¾	12.60	13.25
	C 4910, Spray, with Ball Joint	3x½	.....	2.80
	C 4910, Design 40	3x½	.....	4.95
	C 4911—A, Spray, w/ Ball Joint	3x½	.....	2.25
	C 4911—A, Spray, Design 40	3x½	.....	4.40
	C 4912—A, Spray, Plain	3x½	.....	2.25
	C 4912—A, Spray, Design 40	3x½	.....	4.25
	C 4913—A, Spray, Plain	3x½	.....	1.70
	C 4913—A, Spray, Design 40	3x½	.....	3.70
	C 4920, Shampoo, w/ attachment	.....	4.95	5.65
	C 4930, Spray, with handle	2½	1.25	1.90
		3	1.90	2.50
		3½	2.25	3.05
		4	3.50	4.50
	C 4932, Spray	2½	.45	.75
		3	.90	1.25
		3½	1.25	1.70
	C 4940—A, Strainer	4	.....	.15
		5	.....	.20
		6	.....	.30
		8	.....	.65

C 9469

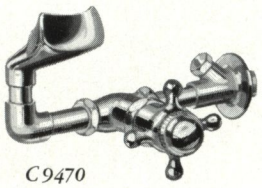
Gooseneck ice water faucet with *Improved Triumph* self-closing valve, concealed regulating screw and ⅜″ female supply.



C 9469

C 9470

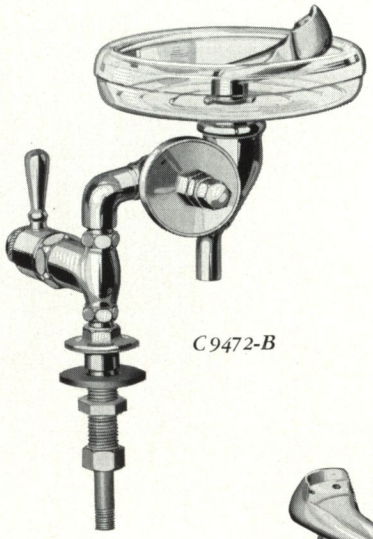
Newera angle stream jet with *Improved Triumph* self-closing valve, concealed regulating screw and ⅜″ female supply connection.



C 9470

C 9472-B

Newera angle stream jet with 7″ glass *receptor, *Improved Triumph* self-closing valve, *Automatic Stream Regulator* and ¼″ I.P.S. tailpiece.

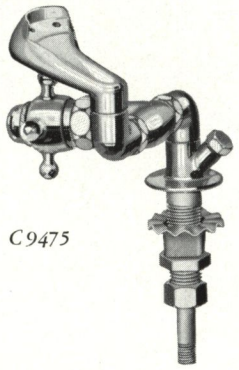


C 9472-B

*Available with 7″ metal receptor.

C 9475

Newera angle stream jet with *Improved Triumph* self-closing valve, concealed regulating screw and ¼″ I.P.S. tailpiece.



C 9475

C 9512

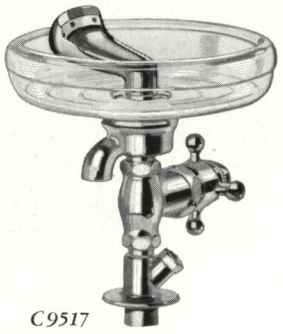
Metal strainer (for use with Crane angle stream jets).



C 9512

C 9517

Newera angle stream jet with 7″ glass *receptor, *Improved Triumph* self-closing valve, concealed regulating screw and ⅜″ female supply connection.



C 9517

Fountains . . . . . Pages 35-2 to 37-1

CRANE DRINKING FOUNTAIN TRIMMINGS

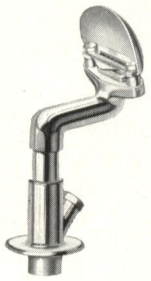


C 9528

China angle stream jet with protecting hood, *Improved Triumph* self-closing valve, concealed regulating screw and —″ female supply connection.

C 9544

Purflo angle stream jet with concealed regulating screw and —″ female supply connection.



C 9544

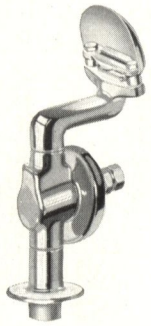


C 9540

Newera angle stream jet with concealed regulating screw and —″ female supply connection.

C 9546

Purflo angle stream jet with *Automatic Stream Regulator* and —″ female supply connection.



C 9546

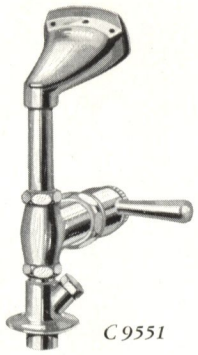


C 9542

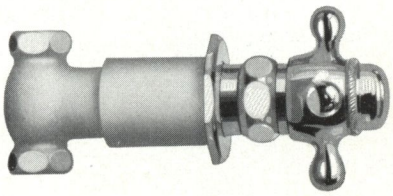
Newera angle stream jet with *Automatic Stream Regulator* and —″ female supply connection.

C 9551

Newera angle stream jet with *Improved Triumph* self-closing valve, concealed regulating screw and —″ female supply connection.

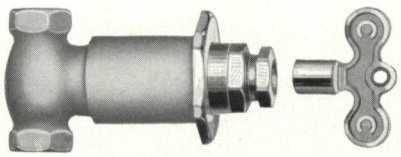


C 9551



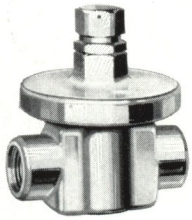
C 9600

¼″ concealed *Improved Triumph* self-closing valve with 4-ball metal handle, finishing flange and renewable seat.



C 9610

¼″ concealed lock-shield, loose key, compression stop with finishing flange.



C 9620-A

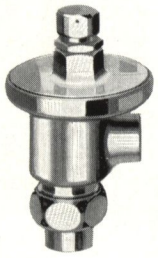
Patented

⅜″ cast brass straight pattern *Automatic Stream Regulator* with integral regulating screw.

C 9622-A

Patented

⅜″ cast brass angle pattern *Automatic Stream Regulator* with integral regulating screw and union outlet.



¼″ size *Automatic Stream Regulators* available in rough brass for concealed installations.

PRICE LIST APPLYING TO No. 675-C CATALOG

Prices given below will be helpful in approximating costs, or comparing the cost of one fixture with another. They do not include piping, labor, and other installation costs.

ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

PAGE	PLATE NUMBER AND DESCRIPTION	Size Inches	PRICE Nickel Plated	PRICE Chrom. Plated
	SHOWER RODS AND CURTAINS			
33-1	C 4950—C, Corner Rod, Complete with White Duck Curtain, Snaps and Hold Back Hook	28x57	.....	$10.55
		28x63	.....	11.15
	C 4950—B, Corner Rod with Flanges only	28x57	.....	6.05
		28x63	.....	6.45
	C 4950—B, Design 40 Rod with Flanges only	28x57	.....	9 25
		28x63	.....	9.65
	C 4962—C, Recess Rod, Complete with White Duck Curtain, Snaps and Hold Back Hook	38	$4.20	4.50
		44	4.55	4.95
		56	5.05	5.55
		62	5.45	6.00
		68	5.80	6.40
		74	6.20	6.70
	C 4962—B, Recess Rod with Flanges only	38	1.80	2.00
		44	2.00	2.20
		56	2.20	2.50
		62	2.40	2.70
		68	2.55	2.95
		74	2.75	3.15
	C 4962—B, Design 40 Recess Rod with Flanges only	38	.....	5.25
		44	.....	5.50
		56	.....	6.05
		62	.....	6.40
		68	.....	6.55
		74	.....	6.75
			8-oz.	
	C 4970—B, White Duck Curtain	42x72	1.45	.....
		48x72	1.65	.....
	For Recess Baths—4½′	60x72	1.90	.....
	5′	66x72	2.05	.....
	5½′	72x72	2.20	.....
	6′	78x72	2.40	.....
	For Corner Baths	99x72	3.20	.....
	C 4980, Snap Hooks.....Per 100	.....	3.15	3.75
	C 4984, Hold Back Hook	.....	.70	.75
	C 4984, Design 40 Hold Back Hook	.....	.....	1.50
	C 4986, Hold Back Hook & Chain	.....	.65	.75
	C 5008, Thermometer, Exposed	¾	.....	20.00
	C 5009, Thermometer, Concealed	1	.....	21.70
	SHOWER VALVES			
34-1	C 5021, By-pass, w/ Union	½	.....	4.80
	C 5025, By-pass, Plain	½	.....	4.40
		¾	.....	6.25

PAGE	PLATE NUMBER AND DESCRIPTION	Size Inches	PRICE Nickel Plated	PRICE Chrom. Plated
	SHOWER VALVES—Continued			
34-1	C 5041, Straight	½	.....	$4.05
		¾	.....	5.70
	C 5037, with Screw-driver Slot	½	.....	3.15
		¾	.....	4.65
	C 5044—A, *Improved Triumph*, self-closing shower valve	½	.....	4.70
	C 5051, Transfer Valve	½	.....	13.55
		¾	.....	13.55
	C 5070—R, *Rival*, with Union	½	$2.95	3.05
	C 5071—R, *Rival*, Plain	½	2.70	2.80
	C 5074, *Rival*	½	2.45	2.55
	C 5076, *Rival*, w/ Screw-driver Slot	½	2.05	2.20
			White	Colored
	DRINKING FOUNTAINS			
35-2	C 9038, *Corwith*, Pedestal—30″		$54.75	$78.75
	36″		64.40	96.25
	C 9042, *Corwith*, Pedestal—30″		54.75	78.75
	36″		64.40	96.25
	C 9055, *Corwith*, Wall		33.15	42.80
	C 9060, *Corwith*, Wall		33.15	42.80
	C 9111, *Telephone*		28.75	36.90
36-1	C 9155, *Thurstend*, Pedestal		19.40	.....
	C 9161, *Thurstend*, Wall		17.20	.....
	C 9164, *Thurstend*, Wall		9.40	.....
	C 9175, *Erie*		66.00	87.50
36-2	C 9194, *Erie*		33.75	44.40
	C 9203, *Erie*		32.50	43.15
	C 9215, *Oasis*		37.50	53.75
	C 9227, *Oasis*		57.50	73.75
36-3	C 9254, *Arcuo*		41.90	56.90
	C 9261, *Cristal*		51.65	74.40
	C 9268, *Corridor*		70.00	104.20
	C 9298, *Ontario*		64.40	83.75
36-4	C 9330, *Altruria*, 2-part		39.40	.....
	3-part		53.15	.....
	4-part		63.75	.....
	C 9356, *Thurstend*, Self-Draining		55.00	.....
	C 9392, Water Cooler		72.00	.....
	C 9405 Electric Water Cooler (F.O.B. Warren, Ohio)		245.80	.....

PRICE LIST APPLYING TO No. 675-C CATALOG

Prices given below will be helpful in approximating costs, or comparing the cost of one fixture with another. They do not include piping, labor, and other installation costs.

ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE
	CUSPIDORS	White
37-1	C 9800, *Gymnasium*	$33.15
	C 9803	57.65
	C 9806, *Y. M. C. A.*	44.05
	FOUNTAIN TRIMMINGS	Chrom. Plated
37-2	C 9460-A *Whitney* Bubbler	*$12.40
	C 9463-B, Combination Bubbler	* 17.00
	C 9464-A, Combination Bubbler	* 12.20
	C 9467, Bubbler	* 8.20
	C 9468-B, Bubbler	* 13.15
38-1	C 9469, Gooseneck Ice Water Faucet	6.00
	C 9470, *Newera* Bubbler	6.15
	C 9472-B, *Newera* Bubbler	* 14.25
	C 9475, Bubbler	6.65

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE
	FOUNTAIN TRIMMINGS—Continued	Chrom. Plated
38-1	C 9512, Metal Strainer	$ .70
	C 9517, Bubbler	* 7.40
	*For 7-inch Metal Receptor	Add 1.70
38-2	C 9528, Bubbler	6.15
	C 9540, *Newera* Bubbler	4.15
	C 9542, *Newera* Bubbler	7.25
	C 9544, *Purflo* Bubbler	4.35
	C 9546, *Purflo* Bubbler	7.50
	C 9551, Bubbler	6.15
	C 9600, *Triumph* Valve	3.50
	C 9610, Loose Key Valve	2.55
	C 9620-A, Automatic Stream Regulator, Straight	3.50
	C 9622-A, Automatic Stream Regulator, Angle	4.25

"MERIT" CLOSE-COUPLED VITREOUS CHINA REVERSE TRAP CLOSET

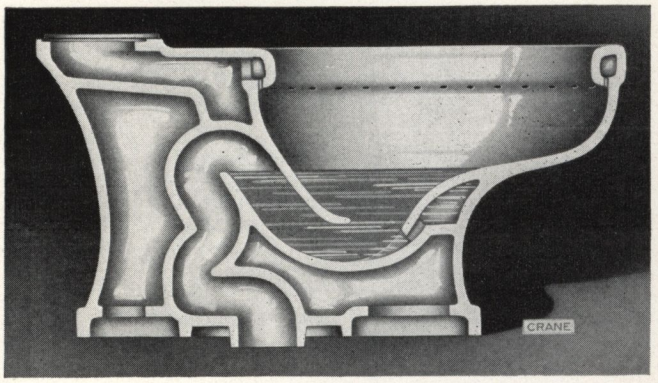


C 11000

Closet: Crane ***Merit*** reverse trap with jet close-coupled closet with plain rim and flush type bolt caps.
Tank: Crane ***Merit*** close-coupled bolted tank with shelf cover and ⅜-inch chromium plated supply to wall with stop.
Seat: C 15002 square back sheet covered seat and cover with chromium plated bar hinge.

Dimensions

Wall to front overall	**Inches**	27½
Width of tank, overall	**Inches**	21
Rim to floor	**Inches**	14
Height overall	**Inches**	28¼
Roughing-in C/L of outlet to wall	**Inches**	12

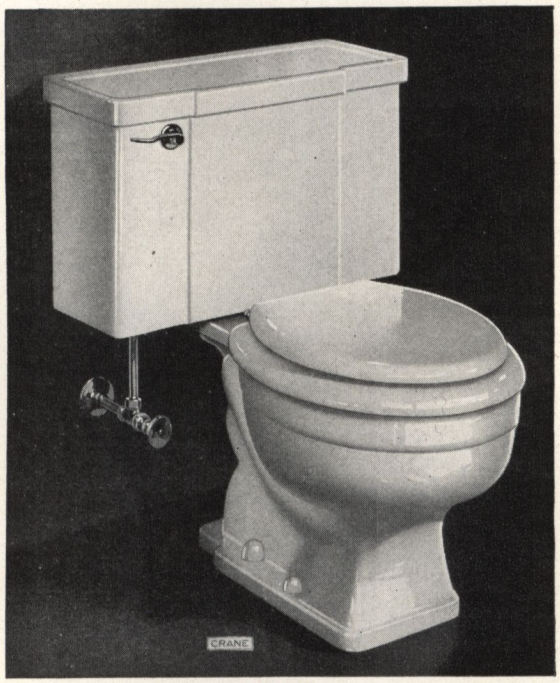


Section—the ***Merit*** closet

In the ***Merit*** close-coupled closet combination, the tank is bolted directly to the closet, eliminating the usual flush connection and giving the appearance of a one-piece combination. The ***Merit*** is fitted with quality trimmings and is designed to harmonize with other Crane Bathroom Fixtures.

- A raised ledge at the rear of the bowl prevents water from creeping into the joint between the tank and bowl.
- Closet has a quiet whirlpool jet action.
- The jet is self-draining—all water may be removed from the trapway when the closet is subject to freezing temperatures.
- Opening, plain rim, 10½x13¼ inches.
- Water surface, 8⅞x9¼ inches.
- 2½-inch deep water seal prevents the escape of sewer gas.
- Trapway passes a 1¾-inch diameter ball.
- The tank cover of the ***Merit*** is designed to serve as a shelf. A convenient place to lay those smaller toilet necessities.

"HANOVER" CLOSE-COUPLED CLOSET COMBINATION



C 11004

Closet: Crane ***Hanover*** close-coupled closet with plain rim and self-draining jet.

Tank: Crane ***Hanover*** close-coupled tank with ⅜-inch supply to wall with stop.

Seat: C 15002 square back sheet covered seat and cover with bar hinge.

Bolt Caps: Four china bolt caps.

Wall to front	**Inches**	27½
Width of tank	**Inches**	21¾
Rim to floor	**Inches**	14
Height, overall	**Inches**	28¼
Roughing-in C/L of outlet to wall	**Inches**	*12

*The 12-inch recommended roughing-in allows a free-standing installation of the ***Hanover*** with a 1½-inch space between the wall and the back of the tank.

HOSPITAL SERVICE AND EQUIPMENT

Pages for this section are being prepared and will be sent to you in the near future. They will cover the extensive Crane line of hospital plumbing fixtures and kindred equipment for the modern Hospital, Doctor's and Dentist's offices.

A specialized catalog devoted only to hospital plumbing fixtures is available. Apply for catalog No. 620-C Hospital Service.

CRANE CO.

(Printed in U. S. A.)

OCTOBER, 1936



Crane Manor Closet

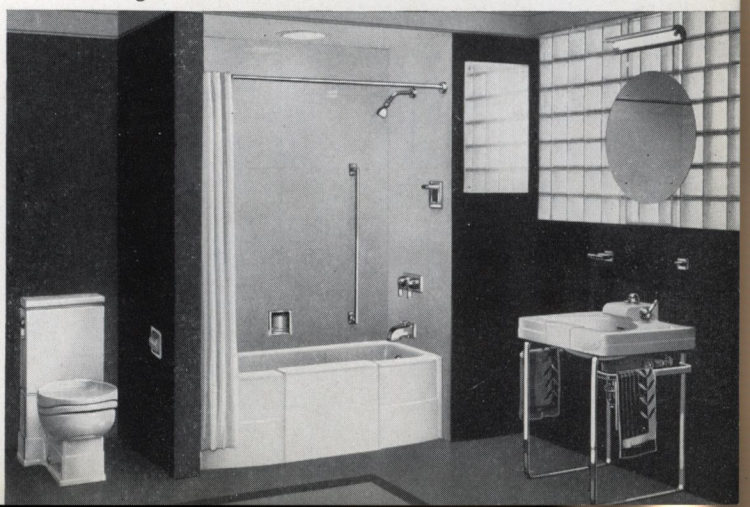
CRANE SANITARY CLOSETS

Whatever the requirements or the budget, there is a Crane water closet to meet the most exacting demands of the Buyer. Conservative, yet smart design embodied with all the latest principles of sanitation, combine to make Crane closets both quiet and efficient in operation and attractive in appearance. Both one-piece and close-coupled construction is a part of Crane closet designs—eliminating unsightly connecting pipe between bowl and tank. Sturdily constructed from the finest vitreous clays obtainable, they have a hard glaze finish which is absolutely impervious and will not craze or stain.

CONTENTS—CLOSET and URINAL SECTION

	PAGES
RESIDENTIAL LOW TANK COMBINATIONS	
Close-Coupled—*Neuvogue—Siwelclo—Merit—Hanover—Santonia*	41-1 to 43-1
One-Piece—*Manor*	42-1
With Flush Connection—*Neuton—Neuclo—Saxonet—Hudson*	43-2 to 44-1
PUBLIC and SEMI-PUBLIC FLUSH VALVE COMBINATIONS	
Wall Types—*Walton—Rapidway—Lowall*	45-1 to 47-1
Angle Flange Types—*Sanwalton—Angleton*	47-1
Floor Types—*Speedway—Purton—Santon—Whirlton—Maurton Maurclo—Saxonet—Esquator—King Cotton—Giant*	48-1 to 50-1
SEAT-OPERATED COMBINATIONS—*Santon—Lowall—Saxonet—Freeze Proof*	50-2 to 51-1
BIDETS—*Saniway—Hygiene*	44-2
BOWLS ONLY—*Santon—Welling—Welling X—Purton—Empire—Sanwalton Walton—Angleton—Rapidway—Lowall—Speedway—Maurton—Baby Maurclo—Saxonet—Nerwall—Neuton—Neuclo—Neudec*	51-2 to 52-2
FLUSH VALVES and CONNECTIONS	53-1 to 54-2
CLOSET TANKS and TANK TRIMMINGS	55-1 to 56-1
CLOSET TRIMMINGS	56-2
CLOSET SEATS	57-1
URINAL STALLS—*Sanitor*	59-1 to 61-1
WALL URINALS—*Correcto—Rio—Deflecto—Expedio—Manhattan—Santo—Bedfordshire*	62-1 to 65-1
PEDESTAL and TROUGH URINALS—*Vorto*	63-1 to 64-1
URINAL TANKS	64-1
URINAL TRIMMINGS	65-1 to 66-1

Crane Neuvogue Ensemble



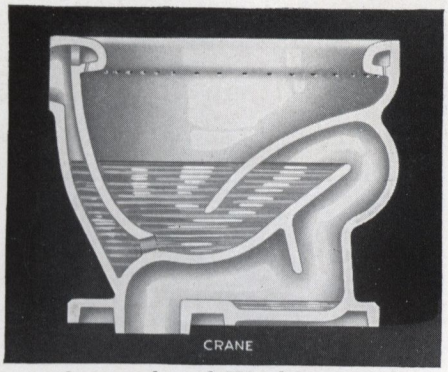
In designing Crane closets, lines in keeping with other Crane bathroom fixtures have been carefully adapted to make available, harmonious, matched ensembles. To the right is a typical installation of the *Neuvogue* ensemble. With a complete air of modernity, the *Neuvogue* design sets a new standard which will influence bathroom fixture design for some time.

CRANE CLOSET BOWLS

Closet bowls are manufactured in four general types: the washdown, the reverse trap, the siphon jet, and the blowout. Each of these, because of its design or price is more particularly suited for certain installations. Buyers not well informed on closet design will find the information given below helpful in selecting the type bowl best suiting their requirements.



Section through Washdown bowl without Jet.

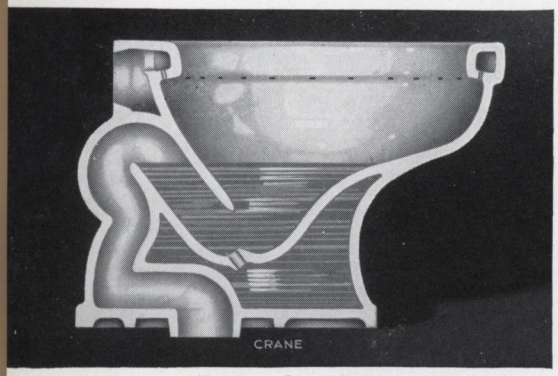


Section through Washdown bowl with Jet.

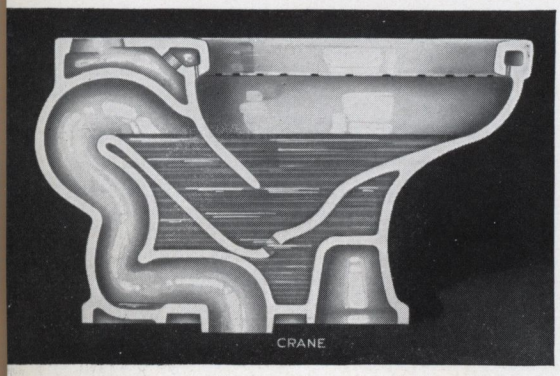
WASHDOWN CLOSET BOWL

Simplest in design, yet highly efficient within its limitations, the washdown bowl is widely used where cost must be kept to a minimum. The trapway is at the front and is necessarily small since proper functioning of the bowl is dependent upon siphonic action in the trapway. Made only with round front and floor outlet, bowls are available with or without jet, and with integral seat or for seat attachment. Action of the washdown with jet is accelerated by the force of water from jet directed over the dam in trapway.

The Crane *Giant* and the *King Cotton* are special type washdown bowls of extra heavy construction for use in mills and factories where closets are subject to unusually severe service. Having large unobstructed trapways, their proper functioning depends entirely upon flooding by the flushing rim rather than siphonic action in the trap.

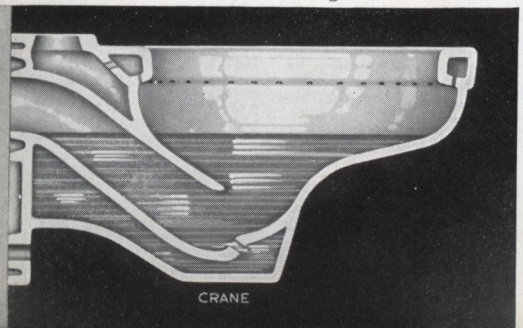


Section through Reverse Trap bowl.



Section through Siphon Jet bowl.

Section through Blow-out bowl.



REVERSE TRAP BOWL

The reverse trap closet bowl differs from the washdown in that the trapway is placed at the rear, making this type suitable for elongated rim construction. Available with or without jet and with floor outlet and back inlet spud only. The water surface is larger, the water seal deeper and action of the bowl is more quiet and efficient than the washdown type.

SIPHON JET BOWL

The utmost in sanitation and efficiency is achieved in the siphon jet type. With trapway at the rear, design of this bowl is similar to the reverse trap except that trapway is larger and the water seal deeper. The extra large water seal in relation to rim opening gives consequent reduction of fouling space. Available in wall or floor outlet styles with top or back inlet, elongated or plain rim and with integral seat or for seat attachment. Quietness in operation and a highly efficient flush resulting from the siphonic action in the trapway accelerated by the powerful jet, make this type suitable for the most exacting residential and public installations for operation with tank or flushing valve.

BLOW-OUT BOWL

The blow-out type cannot be fairly compared with any other type of bowl, for it depends entirely upon a vigorous jet action for its efficiency rather than upon siphonic action in the trapway. Being somewhat noisier than the other types, yet highly efficient, and economical in the use of water, it is particularly suited for use in schools, offices, and other public buildings where noise is not objectionable. Available in floor and wall outlet styles with top or back inlet, elongated rim, and with integral seat or for seat attachment. Blow-out bowls can be operated with flushing valve only. They have large water surface, deep water seal and large unrestricted trapway.



C 10381

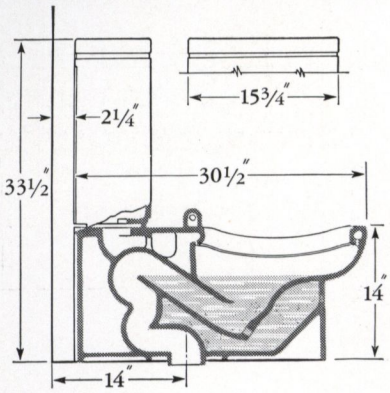
NEUVOGUE—C 10381
Patented

Ultra-modern lines for the fine home.

Bowl, *Neuvogue* quiet-acting siphon jet, with saddle-shaped elongated rim and sanitary enclosed base.

Tank, *Neuvogue* close-coupled, with shelf top; back supply.

Seat, *Neuvogue* sheet covered, correct-posture type, with flat top cover.



Neuvogue Features

Design by one of America's foremost industrial designers with lavatories and baths of matching design available.

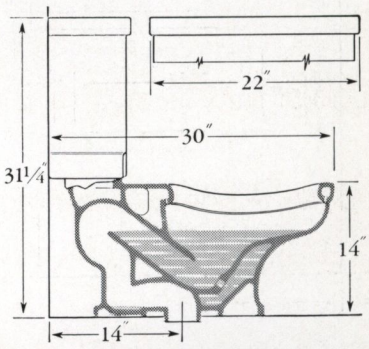
Quiet whirlpool siphon action is positive and cleanses thoroughly.

Saddle design assures a comfortable and correct posture, recommended as helpful by medical authorities.

Large water surface reduces fouling space.

Deep water seal prevents escape of sewer gas.

Large trapway reduces possibility of stoppage.



C 10384

SIWELCLO—C 10384

A most efficient and hygienic type for the fine home or apartment.

Bowl, *Siwelclo* quiet-acting siphon jet, with saddle-shaped elongated rim; china bolt caps.

Tank, *Siwelclo* close-coupled, with shelf top; angle stop bottom supply.

Seat, *Siwelclo* sheet covered, correct-posture type, with cover.

Siwelclo Features

Quiet whirlpool siphon action is positive and cleanses thoroughly.

Saddle design assures a comfortable and correct posture, recommended as helpful by medical authorities.

Large water surface reduces fouling space.

Deep water seal prevents escape of sewer gas.

Large trapway reduces possibility of stoppage.



Outlet flanges . . . . . Page 56-2

All exposed metal chromium plated.

CRANE VITREOUS CHINA CLOSETS

MANOR—C 10490

A high grade yet economical one-piece closet for the home, apartment or hotel.

Closet, *Manor* one-piece, quiet whirlpool action with jet, plain rim, with shelf top tank; angle stop bottom supply; china bolt caps.

Seat, C 14970, with cover, sheet covered.



C 10490

MANOR—C 10491

Same except elongated rim bowl and C 14970-E seat.

Manor Features

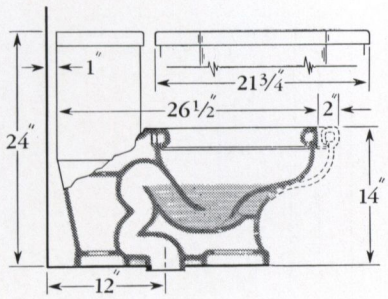
Tank and bowl are integral—no flush connection required.

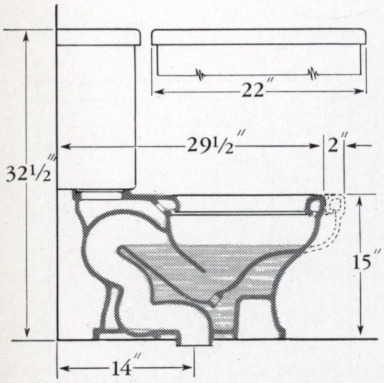
Attractive design harmonizing with other Crane bathroom fixtures.

Quiet yet vigorous whirlpool jet action.

Self-draining jet permits removal of water from trapway where subject to freezing temperatures.

Low over-all height.





C 10541



SANTONIA—C 10541

An efficient close-coupled combination for the home, apartment, hotel or club suite.

Bowl, *Santonia* siphon jet, plain rim, with china bolt caps.

Tank, *Ipswich* close-coupled, with shelf-top; angle stop bottom supply.

Seat, C 14970, with cover, sheet covered.

SANTONIA—C 10535

Same except elongated rim bowl and C 14970-E seat.

Santonia Features

Well balanced, conservative lines which blend in nicely with other Crane bathroom fixtures.

Positive siphon jet action scours bowl thoroughly.

Large water surface reduces fouling space.

Deep water seal prevents escape of sewer gas.

Large trapway reduces possibility of stoppage.

Outlet flanges . . . . . Page 56-2

All exposed metal chromium plated.

CRANE VITREOUS CHINA CLOSETS



C 11000

MERIT—C 11000

An attractive and efficient close-coupled combination for the home or apartment of average size.

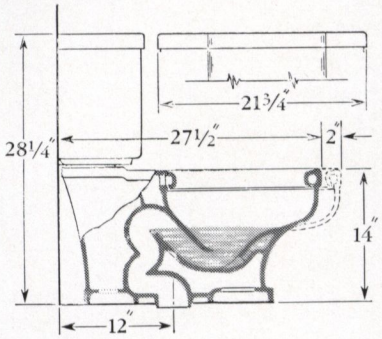
Closet, *Merit* quiet whirlpool action with jet, plain rim; china bolt caps.

Tank, *Merit* close-coupled, with shelf top; angle stop bottom supply.

Seat, C 15002, with cover: sheet covered.

MERIT—C 11001

Same except elongated rim bowl and C 15002-E seat.

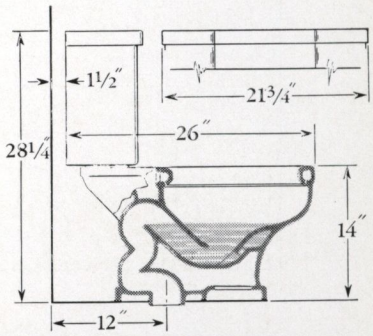


Merit Features

Quiet whirlpool jet action.

Self-draining jet permits removal of water from trapway where subject to freezing temperatures.

Fitted with quality trimmings and designed to harmonize well with other Crane bathroom fixtures.



HANOVER—C 11004

An inexpensive modern close-coupled combination for the moderate price home or apartment.

Closet, *Hanover* whirlpool action with jet, plain rim; china bolt caps.

Tank, *Hanover* close-coupled, with shelf top; angle stop bottom supply.

Seat, C 15002, with cover; sheet covered.

Hanover Features

Whirlpool jet action.

Self-draining jet permits removal of water from trapway where subject to freezing temperatures.

C 11004



Outlet flanges . . . . Page 56-2

All exposed metal chromium plated.

NEUTON—C 11125

A modern, reasonably priced combination for the low cost home or apartment.

Closet, *Neuton* washdown with jet, plain rim, extended back shelf; china bolt caps.

Tank, *Neumode*, with shelf top and supply to floor.

Seat, C 15002, with cover; sheet covered.

Specify *Neuclo* for bowl to rough in 12″



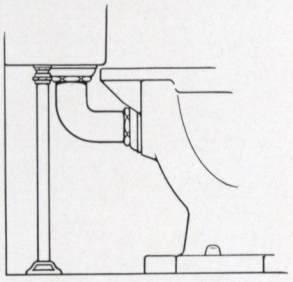
C 11125

Neuton and Neuclo Features

Washdown with jet. Good rim wash, paper wetting jet and jet in trapway provide efficient flushing action.

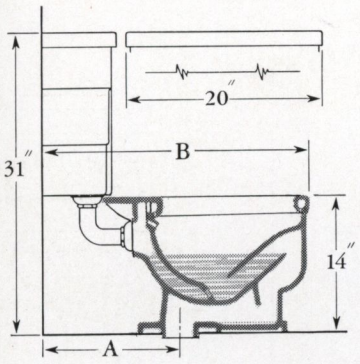
Design of jet permits the sponging out of all water from bowl when subjected to freezing temperatures.

The extended back shelf conceals from view the flush connection between bowl and tank.



Showing how flush connection is concealed with extended back shelf.

For bowls only see page 52-2



	Neuton	Neuclo
A	14″	12″
B	27¼″	27¼″

C 11145



NEUTON—C 11145

Efficient staple washdown combination for low cost installation.

Closet, *Neuton* washdown with jet, plain rim. (Without extended back shelf.)

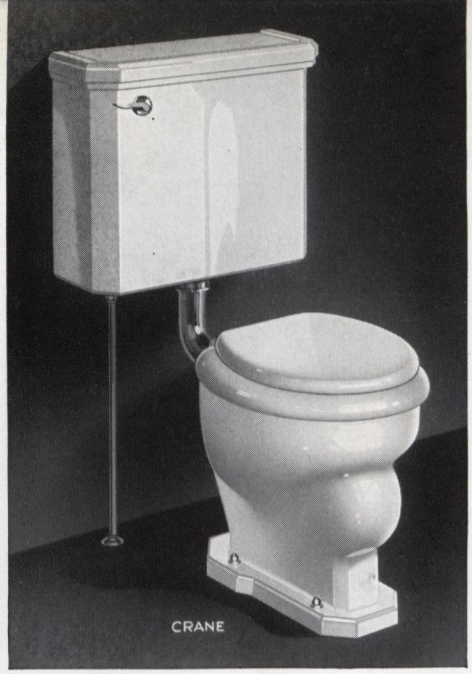
Tank, *Ipswich*, with shelf top and supply to floor.
Seat, C 14710, with cover; sprayed white.

Specify: *Neuclo* for bowl to rough in 12″

Outlet Flanges . . . . . Page 56-2

All exposed metal chromium plated

CRANE VITREOUS CHINA CLOSETS



C 11256

SAXONET—C 11256

An ideal staple washdown combination for replacement work.

Closet, *Saxonet* washdown with jet, plain rim.

Tank, *Trentonian*, with shelf top and supply to floor.

Seat, C 14710, with cover; sprayed white.

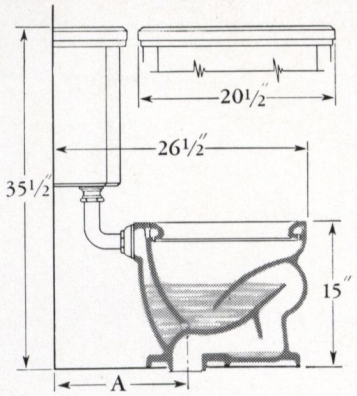
Specify: *Saxonet without jet* if required accordingly.
Saxonet Jr. with jet for 13″ high juvenile bowl.
Nerwall for bowl to rough in 12″.

Saxonet and Nerwall Features

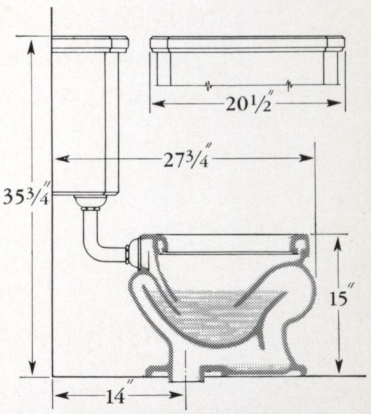
Washdown, siphon action, with or without jet—efficient rim wash. Action is stronger when furnished with jet.

Bowl is suitable for flush valve and low or high tank service.

For bowls only see Page 52-2.



A
Rough in 14″ for Saxonet.
12″ for Nerwall.



C 11275

HUDSON—C 11275

A fine washdown combination with an overflow feature for additional protection.

Bowl, *Hudson* washdown with overflow feature, plain rim.

Tank, *Trentonian*, with shelf top and supply to floor.

Seat, C 15002, with cover; sheet covered.

Hudson Features

Washdown with strong siphonic flushing action.

Differing from the regular washdown bowl in that an overflow is provided at the back, which discharges directly into closet outlet and functions only when the regular trapway is clogged.

The down leg of overflow is much larger in area than its inlet, thus assuring passage to the outlet of anything entering the inlet.

Can be used with high or low tank, or flush valve.



Outlet flanges . . . . . Page 56-2

All exposed metal chromium plated

CRANE VITREOUS CHINA BIDETS



C 11292

SANIWAY—C 11292

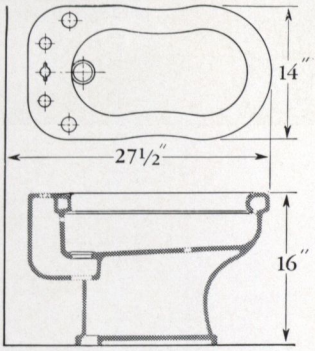
Bidet, *Saniway* four-valve, with jet, integral overflow, flushing rim.

Fixture, hot and cold water flushing rim and jet supply, jet with integral nozzle and removable spray head; 3/8″ supplies with stops.

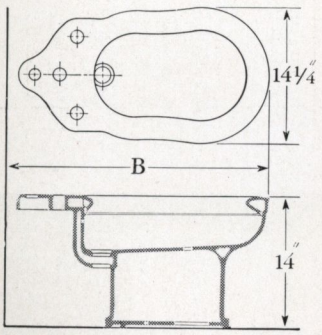
Waste, *Lever Action Securo* quick draining, and 1¼″ brass "P" trap.

SANIWAY—C 11293

Same without jet and with two-valve supply fixture.



Designed for personal hygiene, the important sanitation features of the bidet are gaining recognition in the United States. It promotes more frequent washing of the pelvic region as it is not necessary to disrobe. Made of vitreous china, it is equipped with a flushing rim, a jet with removable spray head, and a waste which closes the bidet at the outlet. The jet directs a stream of water upward and the flushing rim effectually cleanses the bowl after use. The waste permits partially filling the bowl if desired, while an integral overflow prevents flooding.



C 11300



HYGIENE—C 11300

Bidet, *Hygiene* with jet, integral overflow, flushing rim.

Fixture, hot and cold water supply, transfer valve for supply to jet or flushing rim, attachments for jet, rose spray and hose coupling; 3/8″ supplies.

Waste, pop-up with 1¼″ O.D. tailpiece to floor.

HYGIENE—C 11302

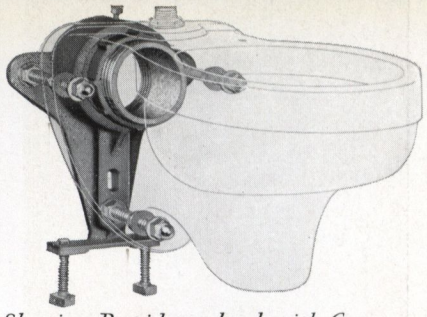
Same without jet and transfer valve.

HYGIENE—C 11304

Same with jet and cold supply only, to flushing rim and jet.

All exposed metal chromium plated

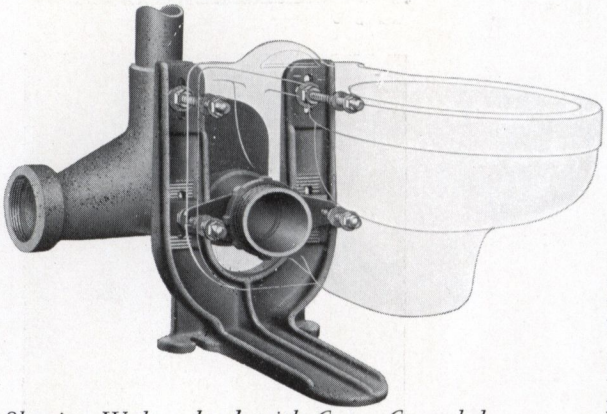
CRANE VITREOUS CHINA WALL CLOSETS



Showing Rapidway bowl with Crane Supporting Flange Unit.

THE importance of good sanitary conditions in public toilet rooms has provided an ever increasing demand for wall type closets. The floor under the bowl, being free from obstruction, is easily kept clean without touching the fixture. This desirable feature together with excellence in design and utility are presented in Crane *Walton*, *Rapidway*, and *Lowall* wall closets.

When supported on a Crane concealed chair carrier or supporting flange unit, the wall closet makes a very sturdy assembly.

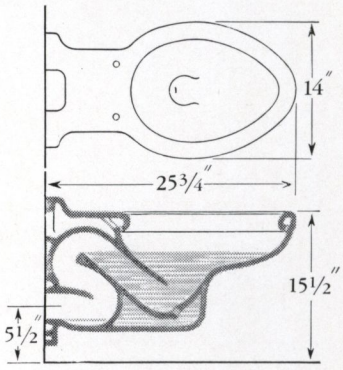


Showing Walton bowl with Crane Concealed Chair Carrier and Crane-Hulbert drainage fitting.

Crane-Hulbert Drainage Fittings are, in reality, a combination of several fittings in one. They permit the installation of wall-hung closets in batteries with a uniformly pitched horizontal line completely above the floor. Simplicity of construction, economy of installation and simplification of waste and vent piping are some features.

For Crane closet supporting units, see Page 129.

For Crane-Hulbert drainage fittings, see Page 129.



Walton Features

Recommended for use in schools, hospitals and public buildings.

Full siphon jet: Prompt and quiet siphon action.
Wall type: Permits easy cleaning of floors.
Large water surface reduces fouling space.
Deep water seal prevents escape of sewer gas.
Large trapway reduces possibility of stoppage.
Can be used with either high tank or flush valve.

C 11320



WALTON—C 11320

Bowl, *Walton* siphon jet, elongated rim.

Valve, C 12901-HW *Delta*, with 1″ non-siphon corner stop, *Vigilant* vacuum breaker.

Seat, C 14911 ebony hard rubber.

Supporting flange, C 37143-G, for 4″ iron pipe, with cap nuts and washers.

Integral seat and raised rear vent *Walton* bowls available—see Page 52-1.

C 11325



WALTON—C 11325

Bowl, *Walton* siphon jet, elongated rim.

Valve, C 12941-W *Delta* concealed, with 1″ stop, *Vigilant* vacuum breaker.

Seat, C 14911 ebony hard rubber.

Supporting flange, C 37143-G, for 4″ iron pipe, with cap nuts and washers.

All exposed metal chromium plated.

CRANE VITREOUS CHINA WALL CLOSETS



C 11380

RAPIDWAY—C 11380

Bowl, *Rapidway* blow-out, elongated rim.

Valve, C 12901-HW *Delta*, with 1″ non-siphon corner stop; *Vigilant* vacuum breaker.

Seat, C 14911 ebony hard rubber.

Supporting flange, C 37144-G, for 4″ iron pipe, with cap nuts and washers.

Raised rear vent Rapidway bowls available, see Page 52-1.



C 11387

RAPIDWAY—C 11387

Bowl, *Rapidway* blow-out, integral seat, elongated rim.

Valve, C 12941-RW *Delta* concealed, with 1″ stop; *Vigilant* vacuum breaker.

Supporting flange, C 37144-G, for 4″ iron pipe, with cap nuts and washers.

RAPIDWAY—C 11384

Same except seat attachment bowl with C 14911 seat.

Rapidway Features

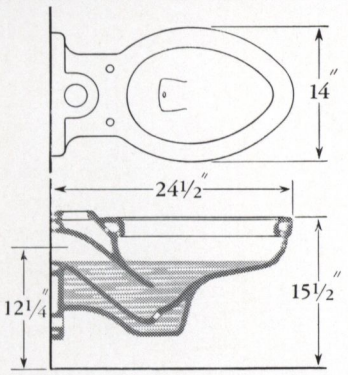
Particularly suited for use in schools, offices and other types of public buildings.

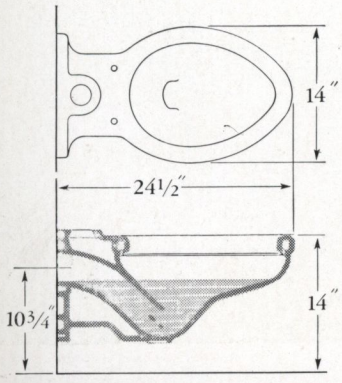
Blow-out with jet: Short vigorous flushing action.

Wall type: Permits easy cleaning of floors.

Has large trapway and water surface, deep water seal.

For Crane closet supporting units, see Page 129.
For Crane-Hulbert drainage fittings, see Page 129.





C 11420



Lowall Features

Ideal for schools, offices and other public buildings. Economical in the use of water.

Blow-out with twin jets: Short vigorous flushing action.

Small hole in trapway permits sponging out all water from bowl where subject to freezing temperatures.

Has large trapway and water surface, deep water seal.

LOWALL—C 11420

Bowl, *Lowall* blow-out with twin jets, elongated rim.

Valve, C 12901-HW *Delta*, with 1″ non-siphon corner stop; *Vigilant* vacuum breaker.

Seat, C 14911 ebony hard rubber.

Supporting flange, C 37144-G, for 4″ iron pipe, with cap nuts and washers.

Raised rear vent Lowall bowls available, see Page 52-1.

Rapidway and Lowall closets are designed for use with flush valves only and require a minimum of 15 lbs. pressure at the valve for satisfactory operation.

All exposed metal chromium plated.

CRANE VITREOUS CHINA WALL CLOSETS



C 11423

LOWALL—C 11423

Bowl, *Lowall* blow-out with twin jets, elongated rim.

Valve, C 12941-W *Delta* concealed, with 1″ stop; *Vigilant* vacuum breaker.

Seat, C 14911 ebony hard rubber.

Supporting flange, C 37144-G, for 4″ iron pipe, with cap nuts and washers.



C 11449

LOWALL—C 11428

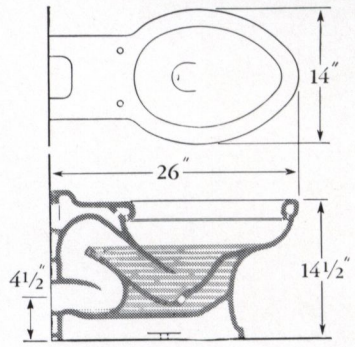
Same except with integral seat bowl and less seat.

SANWALTON—C 11449

Bowl, *Sanwalton* siphon jet, integral seat, elongated rim; china bolt caps.

Valve, C 12941-W *Delta* concealed, with 1″ stop; *Vigilant* vacuum breaker.

Seat attachment and top inlet Sanwalton bowls available, see Page 52-1.



Sanwalton Features

Desirable for installations requiring wall outlet but unable to use wall supporting unit.

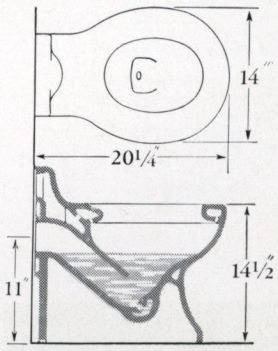
Full siphon jet: Prompt and quiet siphon action.
Large water surface reduces fouling space.
Deep water seal prevents escape of sewer gas.
Large trapway reduces possibility of stoppage.

Angleton Features

Ideal for prisons and similar institutions when furnished with vandal-proof flushing valve.

Blow-out with jet: Short and vigorous flushing action using a small amount of water.

Large trapway reduces possibility of stoppage.



ANGLETON—C 11470

Bowl, *Angleton* blow-out with jet, integral seat, plain rim, wall outlet.

Valve, C 12941-SW *Delta* concealed, with 1″ stop; vandal-proof push button; *Vigilant* vacuum breaker.

Floor outlet, seat attachment and top inlet Sanwalton bowls available, see Page 52-1.

Angleton closets are designed for use with flush valve only and require a minimum of 15 lbs. pressure at the valve for satisfactory operation.

C 11470



Outlet flanges . . . . Page 56-2.

All exposed metal chromium plated.

CRANE VITREOUS CHINA CLOSETS



C 11495

SPEEDWAY—C 11495

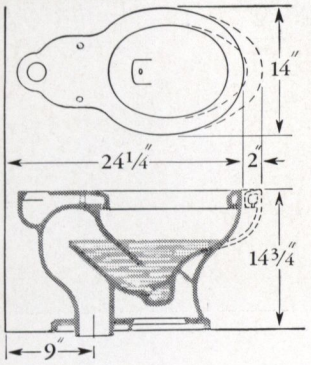
Bowl, *Speedway* blow-out, elongated rim, china bolt caps.
Valve, C 12901-W *Delta*, with 1″ angle stop; *Vigilant* vacuum breaker.
Seat, C 14911 ebony hard rubber.

SPEEDWAY—C 11497

Same except plain rim bowl and C 14905 seat.

Specify *Speedway Jr.* for 13″ high juvenile bowl

Integral seat and back inlet Speedway bowls available, see Page 52-2.

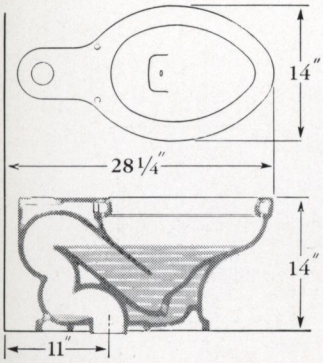


Speedway Features

Excellent for schools, offices or other public buildings where clogging of the trapway is a source of trouble.

Blow-out with jet: Powerful jet flushing action.
Large trapway reduces possibility of stoppage.
Absence of obstructive curves in down leg of trapway reduces the resistance of the discharge.
Has large water surface and deep water seal.

Speedway closets are designed for use with flush valve only and require a minimum of 15 pounds pressure at the valve for satisfactory operation.



C 11560

Purton Features

Particularly fine for dependable service in public, commercial and industrial buildings.

Full siphon jet: Positive flushing action starts immediately.
The extra large trapway reduces to a minimum the possibility of stoppage.
Has large water surface and deep water seal.

The Purton is furnished for use with a flush valve only.



PURTON—C 11560

Bowl, *Purton* siphon jet, with 3″ clearance trapway, elongated rim, china bolt caps.
Valve, C 12901-W *Delta*, with 1″ angle stop; *Vigilant* vacuum breaker.
Seat, C 14911 ebony hard rubber.

Integral seat and back inlet Purton bowls available, see Page 51-2.

CRANE VITREOUS CHINA CLOSETS



C 11660

SANTON—C 11660

Bowl, *Santon* siphon jet, elongated rim, china bolt caps.

Valve, C 12901-W *Delta*, with 1″ angle stop; *Vigilant* vacuum breaker.

Seat, C 14911 ebony hard rubber.

SANTON—C 11661

Same except plain rim bowl and C 14905 seat.

Specify *Santon Jr.* for 13½″ high juvenile bowl.

Raised rear vent and integral seat Santon bowls available, see Page 51-2.



C 11670

SANTON—C 11670

Bowl, *Santon* siphon jet, elongated rim, china bolt caps.

Valve, C 12941-W *Delta* concealed, with 1″ stop; *Vigilant* vacuum breaker.

Seat, C 14911 ebony hard rubber.

SANTON—C 11671

Same except plain rim bowl and C 14905 seat.

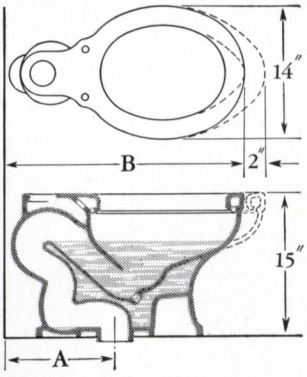
Santon Features

Efficient siphon jet performance for residence, apartment or public building use.

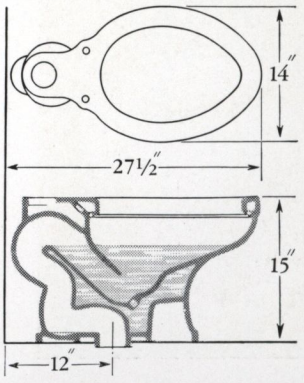
Full siphon jet: Positive siphon action starts at once.

Has large trapway and water surface, deep water seal.

Can be used with high or low tank, or flush valve.



	C 11660	*C 11670*
A	12″	14″
B	25½″	27½″



C 11646

Whirlton Features

Efficient and quiet operation for the home, apartment, hotel or club suite.

Full siphon jet: Quiet whirlpool siphon action.
Has large trapway and water surface, deep water seal.

WHIRLTON—C 11646

Bowl, *Whirlton* siphon jet, with twin jets, elongated rim, china bolt caps.

Valve, C 12901-PW *Delta*, with 1″ angle stop; *Vigilant* vacuum breaker.

Seat, C 14970-E, with cover; sheet covered.

WHIRLTON—C 11648

Same except C 14911 ebony hard rubber, open front seat without cover and C 12901-W *Delta* valve.



Outlet Flanges . . . . . Page 56-2

All exposed metal chromium plated

CRANE VITREOUS CHINA CLOSETS

ESQUATOR—C 11730

Designed to overcome the usual objection to public toilets—the danger of infection from physical contact with the fixture.

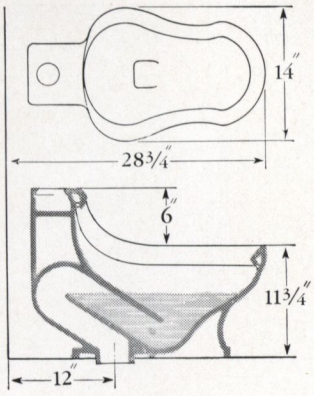
Bowl, *Esquator* blow-out with twin jets; china bolt caps.
Valve, C 13052-W *Alpha*, concealed foot-operated, with 1″ straight stop; *Vigilant* vacuum breaker.

ESQUATOR—C 11732

Same except with C 12901-W Exposed *Delta* valve.



C 11730



Esquator Features

Shaped to make it possible for user to assume a natural position over the bowl without physical contact, thereby eliminating danger of infection.

Flush valve being foot-operated is a further safeguard against communication of disease germs, and being concealed prevents tampering by public.

Twin self-draining jets provide vigorous flushing action—economical in the use of water.

Large unobstructed trapway reduces possibility of stoppage and a deep water seal prevents escape of sewer gas.

C 11865



Maurton & Maurclo Features

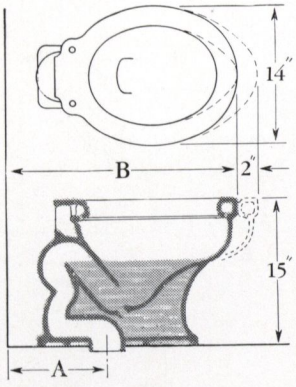
Fine appearance and economical operation for the home, apartment, hotel or club suite.

Reverse trap: with or without jet.
Can be used with high or low tank, or flush valve.

For Bowls only refer to Page 52-2.

MAURTON—C 11865

Bowl, *Maurton* reverse trap, with jet, elongated rim.
Valve, C 13119-W *Beta* ,with 1″ angle stop; *Vigilant* vacuum breaker.
Seat, C 14911 ebony hard rubber.



MAURTON—C 11866

Same except plain rim bowl and C 14905 seat.

Specify: *Maurclo* for bowl to rough in 10″ *Maurton or Maurclo without jet* if required accordingly.

	Maurton	Maurclo
A	12″	10″
B	25½″	25½″

C 11925



SAXONET—C 11925

Bowl, *Saxonet* washdown with jet, plain rim.
Valve, C 13119-W *Beta*, with 1″ angle stop; *Vigilant* vacuum breaker.
Seat, C 14724 wood.
Size Overall: 14″ wide x 24½″ projection. (*Roughs in 12″*)

For bowls only see Page 52-2.

Outlet flanges . . . . Page 56-2

All exposed metal chromium plated.

CRANE VITREOUS CHINA CLOSETS



C 11958

KING COTTON—C 11958

Bowl, *King Cotton* extra heavy washdown, with 2⅞″ clearance trapway, plain rim.

Valve, C 13119-W *Beta*, with 1″ angle stop; *Vigilant* vacuum breaker.

Seat, C 14905 ebony hard rubber.

KING COTTON—C 11956

Same except integral seat bowl and less seat.



C 11957

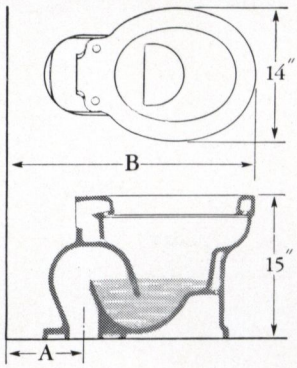
KING COTTON—C 11957

Bowl, *King Cotton* extra heavy washdown, with 2⅞″ clearance trapway, integral seat, plain rim.

Valve, C 13163-W *Beta* concealed, with 1″ angle stop, *Vigilant* vacuum breaker.

KING COTTON—C 11959

Same except seat attachment bowl with C 14905 ebony hard rubber seat.



King Cotton Features

An ideal closet for mill or factory where rough and careless usage is incurred.

Extra heavy washdown: Efficient rim wash.

Extra large waterway: Designed to prevent obstruction, thereby eliminating maintenance annoyances.

Will operate satisfactorily with low tank or flush valve.

	C 11958	*C 11957*
A	8″	5½″
B	25½″	23″

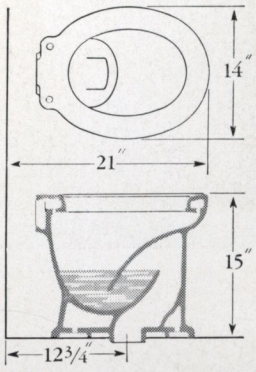
Giant Features

Especially fine for prisons and similar institutions when furnished with vandal-proof flushing valve.

Extra heavy washdown: Good flushing action.

Large waterway: Constructed to pass anything that goes over the dam of trap. Anything that fails to pass this point can be easily removed.

Can be used with high tank or flush valve.



C 11988

GIANT—C 11988

Bowl, *Giant* extra heavy washdown, integral seat, plain rim.

Valve, C 13163-SW *Beta* concealed, with 1″ stop; vandal-proof push button; *Vigilant* vacuum breaker.

GIANT—C 11985

Same except seat attachment bowl with C 14905 ebony hard rubber seat and C 13119-W *Beta* valve (like C 11958).

C 11985 *Roughs-in 16″ outlet to wall.*



Outlet Flanges . . . . . Page 56-2

All exposed metal chromium plated

CRANE SEAT-OPERATED CLOSETS

LOWALL—C 11995

Bowl, *Lowall* blow-out with twin jets, elongated rim.

Valve, C 12964-W *Delta* concealed, seat-operated, with 1″ stop, *Vigilant* vacuum breaker; special ebony hard rubber seat, check hinge.

Supporting flange, C 37144-G, for 4″ iron pipe, with cap nuts and washers.

Size Overall: 14″ wide x 24½″ projection.

Roughs-in 10¾″ outlet to floor.

For bowls only see Page 52-1.



C 11995



C 12005

SANTON—C 12005

Bowl, *Santon* siphon jet, elongated rim, china bolt caps.

Valve, C 12930-W *Delta* seat-operated, with 1″ angle stop, *Vigilant* vacuum breaker; special ebony hard rubber seat, check hinge.

Size Overall: 14″ wide x 27″ projection.

Roughs-in 12″ outlet to wall.

For bowls only see Page 51-2.



C 12025

SAXONET—C 12025

Bowl, *Saxonet* washdown with jet, plain rim.

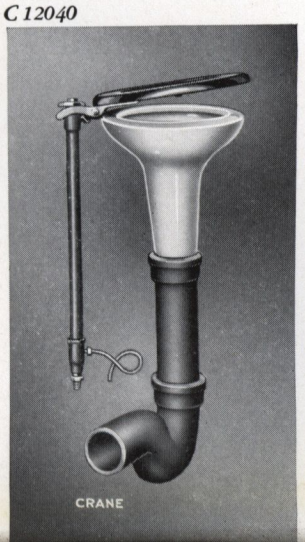
Valve, C 12930-W *Delta* seat-operated, with 1″ angle stop, *Vigilant* vacuum breaker; special ebony hard rubber seat, check hinge.

Size Overall: 14″ wide x 24½″ projection.

Roughs-in 12″ outlet to wall.

For bowls only see Page 52-2.

C 12040



FREEZE-PROOF CLOSET COMBINATION
C 12040

Bowl, enameled inside, painted outside, tall cast iron hopper with brass fan flush.

Valve, seat-operated, with rough supply assembled with 39″ valve rod and casing, copper waste connection and reinforced wood seat.

Note: Available with anti-back-flow device at extra charge. Trap and soil pipe not included.

Outlet flanges . . . . . Page 56-2

All exposed metal chromium plated

CRANE PRESSURE TANK CLOSETS



C 12094

SANTON—C 12094

Bowl, *Santon* siphon jet, elongated rim, with toggle spud for pressure valve, china bolt caps.

Valve, *Modern-Kelly* seat-operated pressure, with ½″ supply; open front wood seat.

Tank, 8″ x 24″ galvanized steel pressure, with 1¼″ galvanized flush pipe.

Size Overall: 14″ wide x 27″ projection x 75″ high.

Roughs-in 11½″ outlet to wall.

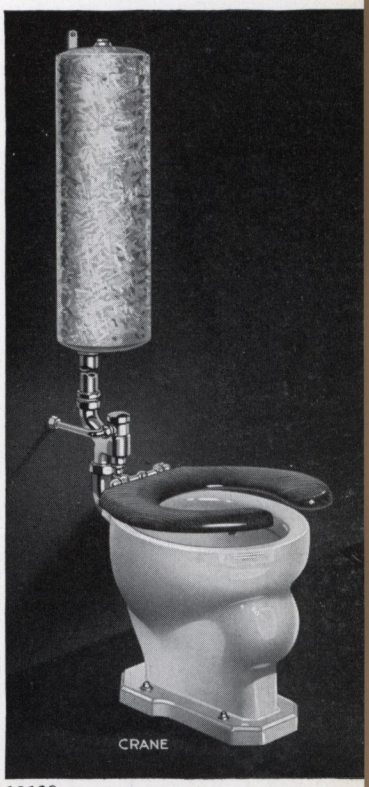
SANTON—C 12096

Same except with concealed tank and flush connection.

Specify *Santon Jr.* for 13½″ high juvenile bowl.

Note: Above combinations require 30 lbs. minimum pressure at the valve.

For bowls only, see Page 51-2.



C 12130

SAXONET—C 12130

Bowl, *Saxonet* washdown with jet, plain rim.

Valve, *Modern-Kelly* seat-operated pressure, with elbow flush connection; ½″ supply; open front wood seat.

Tank, 8″ x 24″ galvanized steel pressure, with 1¼″ galvanized flush pipe.

Size Overall: 14″ wide x 25¼″ projection x 75″ high.

Roughs-in 12¾″ outlet to wall.

SAXONET—C 12132

Same except with concealed tank and flush connection.

Note: Above combinations require 30 lbs. minimum pressure at the valve.

For bowls only, see Page 52-2.

C 12150



FREEZE-PROOF CLOSET COMBINATION
C 12150

Bowl, enameled inside, painted outside, tall oval flushing rim, cast iron hopper.

Valve, seat-operated, with rough supply assembled with 39″ valve rod and casing, copper waste connection; reinforced wood seat.

Tank, 8″ x 24″ galvanized steel pressure, with 1″ galvanized flush pipe.

Note: Available with anti-back-flow device at extra charge.

Trap and soil pipe not included.

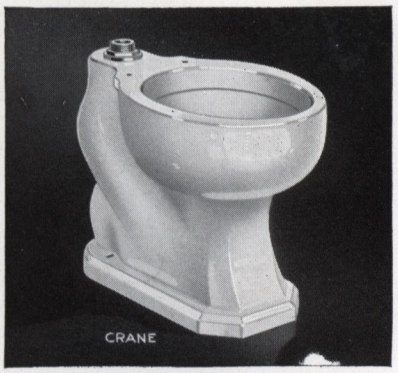
Outlet Flanges . . . . . Page 56-2

CRANE SIPHON JET CLOSET BOWLS

Roughs-In With Low Tank	Roughs-In With Flush Valve	SANTON (15″ rim to floor) Plain or Elongated Rim
14″	12″	*Top spud 1½″ or 2″. Top spud 1½″ or 2″, integral seat.
	11½″	*Top spud for Modern-Kelly pressure valve.
	12″	Top spud 1½″, bed pan lugs, (elongated only).
	12″	Top spud 1½″, raised rear vent (14″ rim to floor).
	14″	*Back spud 1½″. Back spud 1½″, integral seat, (elongated only).
		**Santon Jr. available* (13½″ rim to floor). For additional information see Pages 49-1.
		WELLING—12″ Roughing (15″ rim to floor).
12″	10″	Plain rim, 1½″ or 2″ top spud.
		WELLING X (15″ rim to floor)
12″	10″	Elongated rim, 1½″ or 2″ extended top inlet.
		WELLING—8″ Roughing (15″ rim to floor)
8″	6″	Plain rim, 1½″ or 2″ top spud.
		PURTON (14″ rim to floor)
	11″	Elongated rim, 1½″ top spud. Elongated rim, 1½″ top spud, integral seat.
	14″	Elongated rim, 1½″ back spud.
		For additional information, see Page 48-1.
		EMPIRE (15″ rim to floor)
14″	12″	Elongated rim, 1½″ or 2″ top spud, overflow feature.



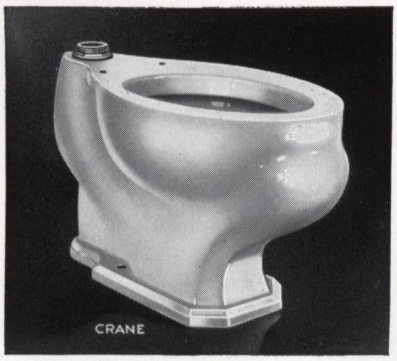
Santon—Raised Rear Vent



Welling—Top Supply



Purton—Back Supply



Empire—Top Supply

Empire Features

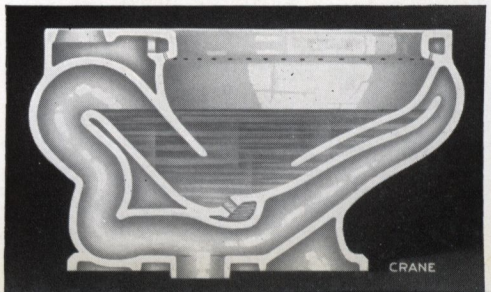
Full siphon jet: Flushing action starts at once.

Differing from the usual siphon jet bowl in that an overflow is provided at the front, discharging directly into closet outlet and functioning only when the regular trapway is clogged.

The down leg of overflow is much larger than its inlet, thus assuring passage to the outlet of anything entering the inlet.

For washdown closet with overflow feature, see Hudson combination shown on Page 44-1.

Section through Empire bowl



Tanks.... Page 55-1 *Flush Valves.... Page 53-2* *Trimmings.... Page 56-2*

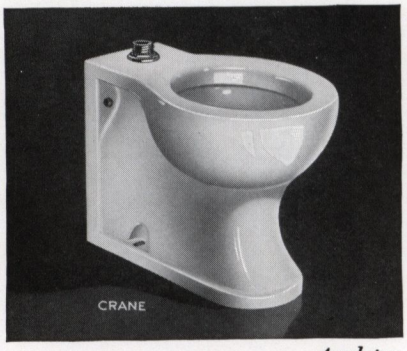
CRANE WALL OUTLET CLOSET BOWLS



Sanwalton



Walton—Raised Rear Vent



Angleton



Rapidway—Raised Rear Vent

Lowall



SIPHON JET BOWLS

	Roughs-In With Flush Valve	Roughs-In With High Tank
SANWALTON (14″ rim to floor)		
Elongated Rim		
1½″*top or back spud. 1½″ back spud, integral seat.	4½″	4½″

*Illustrated.

WALTON (15½″ rim to floor)		
Elongated Rim.		
1½″ top or back spud. 1½″ top or *back spud, raised rear vent. 1½″ top of back spud, integral seat.	5½″	

For other information, see Page 45-1.

BLOWOUT BOWLS

ANGLETON		
Wall outlet—15″ rim to floor.		
Plain rim, 1½″ back spud, integral seat. Extended lip, 1½″ back spud, integral seat.	11″	
Floor outlet—15″ rim to floor.		
Plain rim 1½″ *top or back spud, integral seat. Extended lip, 1½″ top spud, seat attachment.	4½″	

*Illustrated.

RAPIDWAY (15½″ rim to floor)		
Elongated Rim.		
1½″ top or back spud. *1½″ back spud, raised rear vent. 1½″ back spud, integral seat.	12¼″	

For other information, see Page 46-1.

*Illustrated.

LOWALL (14″ rim to floor)		
Elongated Rim.		
1½″ top or *back spud. 1½″ back spud, integral seat.	10¾″	

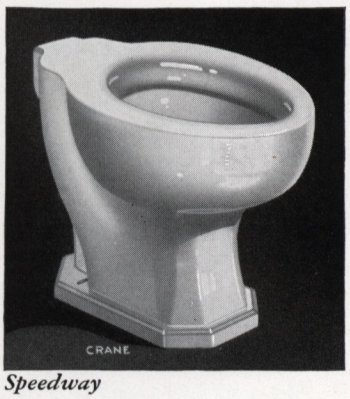
For other information, see Page 46-1.

CRANE VITREOUS CHINA CLOSET BOWLS

Rough-In With Low Tank	Rough-In With Flush Valve	
		SIPHON JET BOWL
		BABY (10″ rim to floor)
12″	9½″	Plain rim, 1½″ or 2″ top spud.
		BLOWOUT BOWLS
		SPEEDWAY (15″ rim to floor)
	10″	*Plain or Elongated Rim, 1½″ top spud. Elongated rim, 1½″ back spud. Elongated rim, 1½″ top or back spud, integral seat.
		**Speedway Jr. available* (13″ rim to floor) For other information, see Page 48-1.
		REVERSE TRAP BOWLS
		MAURTON (15″ rim to floor) Plain or Elongated Rim.
14″	12″	With jet, 1½″ or 2″ back spud. Without jet, 2″ back spud.
		MAURCLO (15″ rim to floor) Plain or Elongated Rim.
12″	10″	With jet, 1½″ or 2″ back spud. Without jet, 2″ back spud.
		For other information, see Page 49-2.
		WASHDOWN BOWLS
		SAXONET (15″ rim to floor) Plain Rim.
14″	12″	Without jet, 1½″ or 2″ back spud. Without jet, 2″ back spud, integral seat. *With jet, 1½″ or 2″ back spud.
		**Saxonet Jr. Available* (13″ rim to floor)
		NERWALL (15″ rim to floor)
12″		Plain rim, 2″ back spud.
		For other information, see Page 44-1.
		NEUTON (14″ rim to floor)
14″		Plain rim, with or without shelf, 2″ back spud.
		NEUCLO (14″ rim to floor)
12″		Plain rim, with or without shelf, 2″ back spud.
		NEUDEC (14″ rim to floor)
10″		Plain rim, without shelf, 2″ back spud.
		For other information, see Page 43-2.



Baby



Speedway

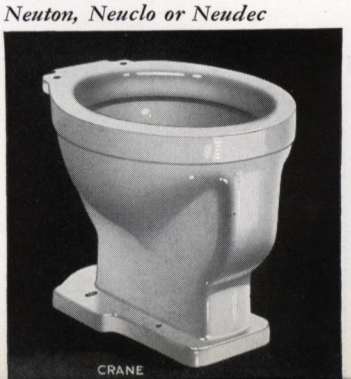


Maurton or Maurclo



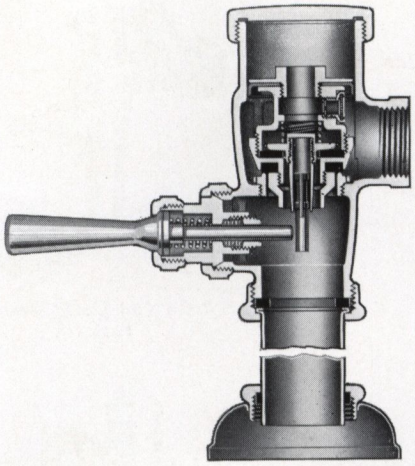
Saxonet or Nerwall

Neuton, Neuclo or Neudec



Tanks . . . . . Page 55-1 *Flush Valves . . . . . Page 53-2* *Trimmings . . . . . Page 56-2*

CRANE QUALITY FLUSHING VALVES



Section through Delta Valve

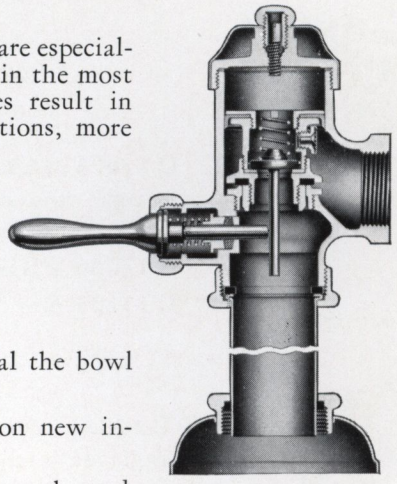
CRANE water controlled flushing valves are especially designed to operate Crane closets in the most efficient manner. Many improved features result in cleaner closets, fewer mechanical interruptions, more economical installations and operations.

All internal working parts including seats are renewable and easily accessible for replacement or repair. A self-cleaning nickel strainer protects the by-pass which has opening larger than openings in strainer to insure against stoppage.

The refill lip assures ample water to re-seal the bowl at each operation of the valve.

The flushing and cleaning of pipe lines on new installations is easily accomplished.

Valves are heavily constructed of quality metals, and cup leathers scientifically treated to assure durability are used for plungers.



Section through Beta Valve

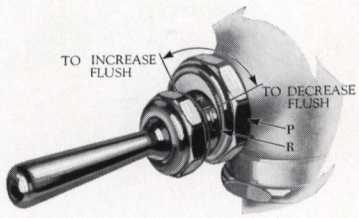
THE DELTA FLUSHING VALVE

Patented

A non-hold-open type where the flush is stopped even though the user continues to hold the handle

The *Delta* has extra large capacity which assures efficient flushing of closet bowls at each operation.

A patented eccentric adjustment for position of the handle makes it possible to regulate the amount of water delivered at each flush without shutting off supply or disturbing the valve. To adjust, loosen union nut (P) and turn eccentric (R) toward (+) for a longer flush and toward (−) for a shorter flush.



Showing the patented eccentric adjusting feature on Crane Delta flushing valves.

THE BETA FLUSHING VALVE

Designed to provide a high quality of service and long wear at a moderate price.

Simple in construction, there is no multiplicity of intricate parts to get out of order.

Without shutting off supply or disturbing the valve, the quantity of water delivered can be regulated by the regulating screw shown at top of valve.

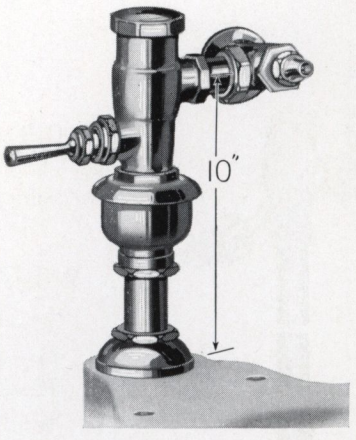
Scores of satisfactory installations, over a long period of years, have conclusively proved their superior serviceability.

VIGILANT VACUUM BREAKER

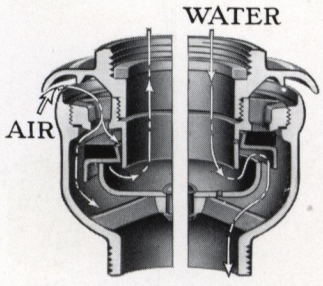
Patented

In remodeling or new construction work it is important to consider means for preventing the possibility of back-flow from closet bowls, thereby removing danger of the water supply becoming polluted through this source. We strongly recommend the use of a Crane *Vigilant* vacuum breaker as a means to prevent this possibility.

When installing the *Vigilant*, the centerline of the flush valve supply inlet should be at least 10″ above the rim of closet bowl.



Application of Vigilant vacuum breaker to Crane Delta flushing valve.



Section through Vigilant vacuum breaker

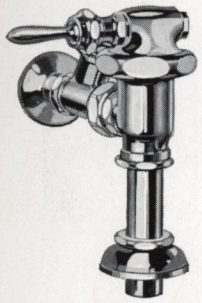
Left side of *Vigilant* section shows position of disc when valve is not flushing or when there is a vacuum in the supply line. In this position, the vacuum breaker is always open to the atmosphere, allowing air to pass through large area ports into the supply line when a vacuum occurs, thus preventing water from rising out of the closet bowl into the tailpiece.

Right side of *Vigilant* section shows position of disc when valve is flushing. Disc is forced against the seat closing air ports and diverting water into the closet. When valve stops flushing disc drops down automatically and vacuum breaker is again open to atmosphere.

Valves . . . . . Page 53-2 *Flush Connections . . . . . Page 54-1* *Vacuum Breakers . . . . . Page 54-2*

EXPOSED VALVES

**Available with any of the exposed flush connections listed on next page—Specify plate number and size required.*



C 13000 Alpha shown

C 12883 *Delta* valve with 1″ straight stop and *C 13198, 1½″ x 6″ straight flush connection.

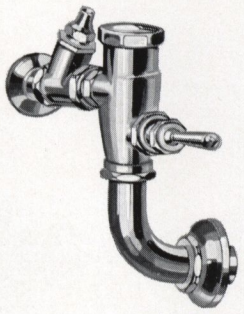
C 13000 *Alpha* ditto.

C 13103 *Beta* ditto.

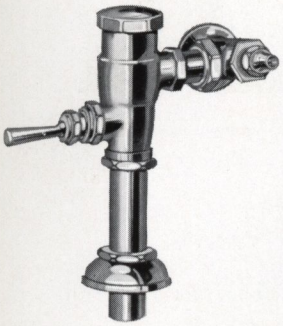
C 12888 *Delta* valve with 1″ straight stop and *C 13207, 1½″ x 10″ elbow flush connection.

C 13008 *Alpha* ditto.

C 13109 *Beta* ditto.



C 12888 Delta shown
Patented



C 12901 Delta shown
Patented

C 12901 *Delta* valve with 1″ angle stop and *C 13198, 1½″ x 6″ straight flush connection.

†**C 12902** *Drednaut* ditto.

C 13022 *Alpha* ditto.

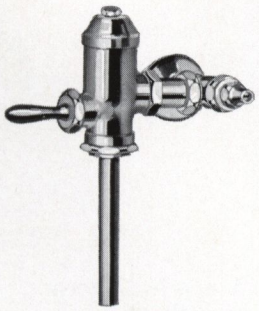
C 13119 *Beta* ditto.

†Especially constructed for salt and alkaline water service.

C 12981 *Delta* valve with ½″ angle stop and *C 13199, ¾″ x 6″ straight flush connection.

C 13058 *Alpha* ditto.

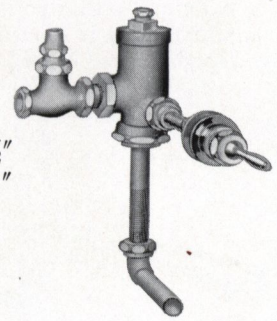
C 13181 *Beta* ditto.



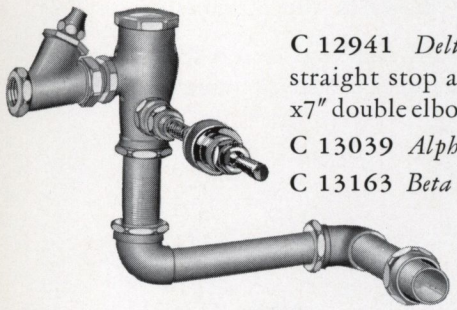
C 13181 Beta shown

CONCEALED VALVES

***Available with any concealed or semi-concealed flush connection listed on next page—Specify plate number and size required.*



C 13186 Beta shown



C 12941 Delta shown
Patented

C 12941 *Delta* valve with 1″ straight stop and **C 13216, 1½″ x7″ double elbow flush connection.

C 13039 *Alpha* ditto.

C 13163 *Beta* ditto.

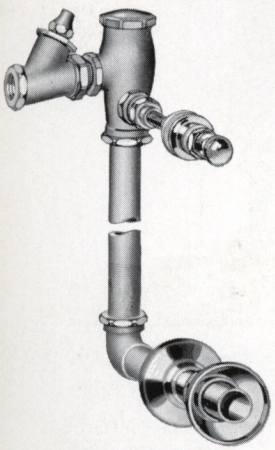
C 12987 *Delta* valve with ½″ straight stop and **C 13213, ¾″ x 9″ elbow flush connection.

C 13072 *Alpha* ditto.

C 13186 *Beta* ditto.

Example

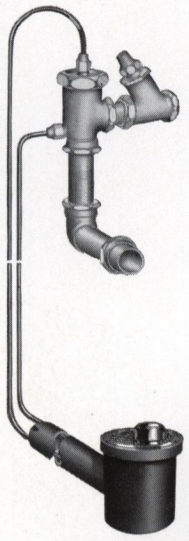
C 12941-R *Delta* valve with C 13218, 1½″ x 22″ elbow flush connection.



C 12941-R Delta
Patented

C 13052 *Alpha* foot operated valve with 1″ straight stop and **C13212, 1½″ x 7″ elbow flush connection.

C 13086 same with ½″ straight stop and **C 13213, ¾″ x 9″ elbow flush connection.



C 13052 Alpha
Patented

VARIATIONS SPECIFIED BY SUFFIX LETTER CHANGES

E —Wheel handle compression stop.
G—Seat bumper on wheel handle stop. (See Page 54-2)
H—Lockshield non-siphon stop. (See Page 54-2)
K—Wheel handle non-siphon stop. (See Page 54-2)
P —Seat bumper on valve cap.
R—Push button. (See example above)
S —Vandal-proof push button.
W—Vigilant vacuum breaker. (See Page 54-2)

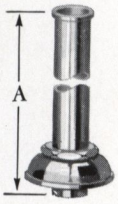
Note: Orders for *Alpha* valves must so specify when required for low pressure or for blow-out closets.

Seat-operated valves.....Page 54-2

All exposed metal nickel or chromium plated.

CRANE FLUSH CONNECTIONS

EXPOSED CONNECTION FOR TOP INLET



C 13198

Straight flush connection.

†Sizes: 1½″ or 1¼″ x 6″
1½″ x 6″ Des. 40.
1½″ x 23″
1¼″ x 16½″

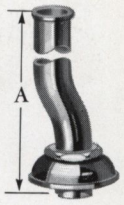
C 13199

¾″ x 6″ less slip nut and escutcheon.

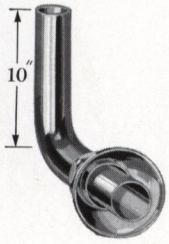
C 13203

Offset flush connection.

†Sizes: ¾″x6″ with 1″ offset
1½″x6″ with 1½″ offset
1½″x21½″ with 1½″ offset



EXPOSED CONNECTION FOR BACK OR SIDE INLET



C 13207

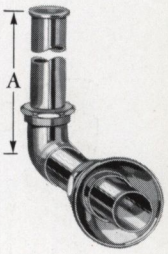
Elbow flush connection.

Sizes: 1½″ x 10″
1½″x 1¼″ x 10″

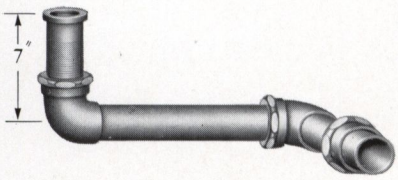
C 13210

Cast slip joint elbow flush connection.

†Sizes: 1¼″ x 23″
1½″ x 10″
1½″ x 23″



CONCEALED CONNECTION FOR BACK INLET



C 13216

Double elbow flush connection for wall (*) inches thick.

Size: 1½″ x 7″

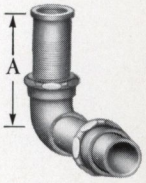
C 13212

Elbow flush connection for wall (*) inches thick.

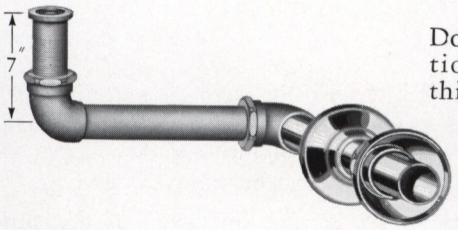
†Sizes: ¾″ x 9″
1½″ x 1¼″ x 9″
1½″ x 7″
1½″ x 22¼″
1½″ x 36″

C 13213

¾″ x 9″ less slip nut.



SEMI-CONCEALED CONNECTION FOR BACK INLET



C 13221

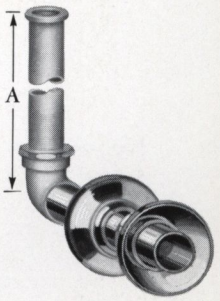
Double elbow flush connection for wall (*) inches thick.

Sizes: 1½″ x 1¼″ x 7″
1½″ x 7″

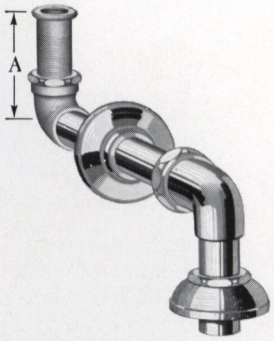
C 13218

Elbow flush connection for wall (*) inches thick.

†Sizes: 1½″ x 7″
1½″ x 1¼″ x 7″
1½″ x 22″
1½″ x 1¼″ x 22″



SEMI-CONCEALED CONNECTION FOR TOP INLET



C 13223

Double elbow flush connection for wall (*) inches thick.

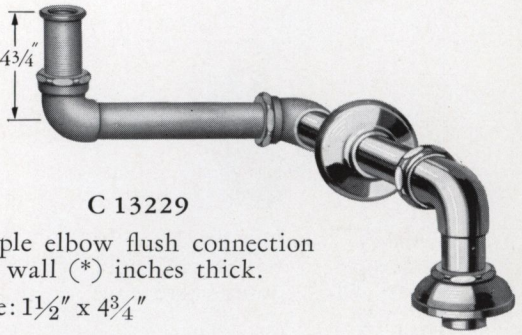
†Sizes: ¾″ x 4¾″
1½″ x 1¼″ x 4¾″
1½″ x 1¼″ x 15¾″
1½″ x 4¾″

C 13225

¾″ x 4¾″ less slip nut and escutcheon but with wall flange.

C 13226

¾″ x 4¾″ with offset connection to fixture.



C 13229

Triple elbow flush connection for wall (*) inches thick.

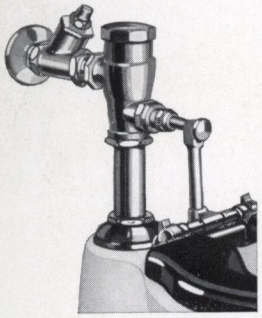
Size: 1½″ x 4¾″

†Last figure is A dimension in illustration.

**Orders must specify thickness of wall.*

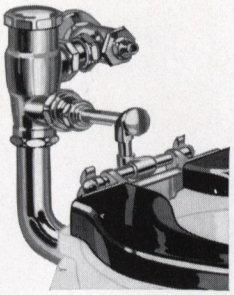
SEAT-OPERATED VALVES

**Furnished with open front and back, ebony hard rubber seats for elongated or plain rim bowls as specified.*



*C 12922 *Delta* seat-operated valve with 1″ straight stop and C 13198, 1½″ x 6″ straight flush connection.

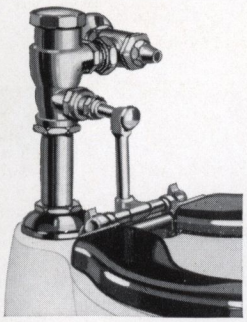
Note: Orders must specify distance from center of spud to center of post holes and top of bowl to center of valve inlet.



*C 12930 *Delta* seat-operated valve with 1″ angle stop and C 13207, 1½″ x 10″ elbow flush connection.

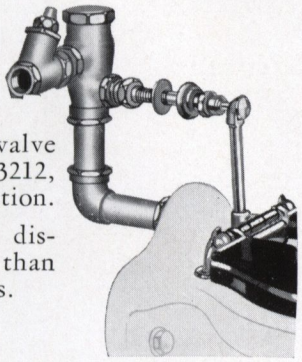
Note: Orders must specify distance from face of spud to center of post holes and top of bowl to center of valve inlet.

See page 53-2 for Suffix Letter Variations.



*C 12930 *Delta* seat-operated valve with 1″ angle stop and C 13198, 1½″ x 6″ straight flush connection.

Note: Orders must specify distance from center of spud to center of post holes and top of bowl to center of valve inlet.



*C 12964 *Delta* seat-operated valve with 1″ straight stop and C 13212, 1½″ x 7″ elbow flush connection.

Note: Orders must specify distance from wall (not less than 3¼″) to center of post holes.

VIGILANT VACUUM BREAKER

Patent Pending



See Page 53-1 for Application

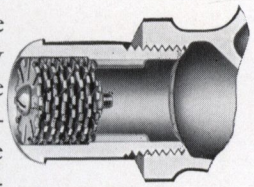
C 13273 *Vigilant* vacuum breaker (with male outlet suitable for slip nut furnished with Crane valves).

Note: Designated by SUFFIX W when ordered with valve. (See Page 53-2).

Furnished rough brass when concealed.

MUFFLERS FOR QUIET FLUSH ACTION

Crane flush valves installed where high pressure or other noise-producing conditions exist, may be quieted simply and quickly by inserting a Crane muffler in the tailpiece between valve and controlling stop. By restricting the supply, this muffler greatly reduces the noise created by rushing water.



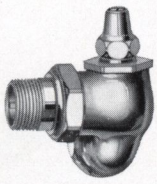
Application.

The Crane muffler consists of eight slotted discs with seven separating washers assembled to a center screw with nut. Where complete muffler restricts supply too much, some of the discs must be removed. The number of discs necessary for proper operation of the closet will vary with the pressure and type of bowl used. The controlling stop should also be throttled to suit the pressure.

NON-SIPHON STOPS

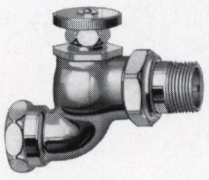
Non-Siphon stops may be used in place of compression stops where back-flow protection, other than the Vigilant vacuum breaker, is required in the supply line. The seat disc attached to a sliding stem is opened by the water pressure when flush valve is operated. In case of a vacuum in the supply line, the check is drawn to its seat.

Non-siphon stops can be shut off completely or throttled the same as regular compression stops.



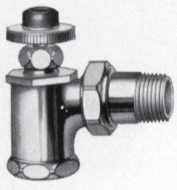
C 13330-A Non-Siphon 1″ lock-shield stop designated by SUFFIX H when ordered with valve (see Page 53-2).

Corner pattern shown.



C 13327-A Non-Siphon 1″ stop with wheel handle designated by SUFFIX K when ordered with valve (see Page 53-2).

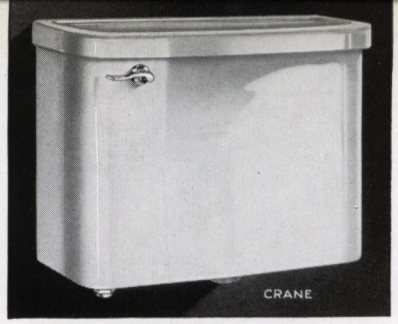
Straightway pattern shown.



C13310 compression stop with seat bumper on wheel handle designated by SUFFIX G when ordered with valve (see Page 53-2).

Corner pattern shown.

All exposed metal nickel or chromium plated.



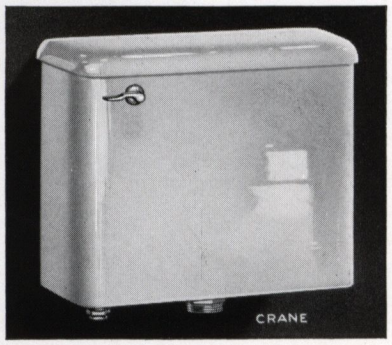
IPSWICH—C 13558

Vitreous china tank with shelf cover, bottom supply float valve, flush valve, *Easyac* lever, 2″ flush connection and ⅜″ supply to floor.

IPSWICH—C 13556

Same except for back supply.

Size	Length	Width	Height
18″ (6 gal.)	20″	7½″	16½″
20″ (8 gal.)	22″	8½″	16¾″



C 13620

Porcelain enameled inside and outside, straight front tank with bottom supply float valve, flush valve, *Easyac* lever, 2″ flush connection and ⅜″ supply to floor.

Size	Length	Width	Height
20″ (8 gal.)	20¼″	7½″	17″

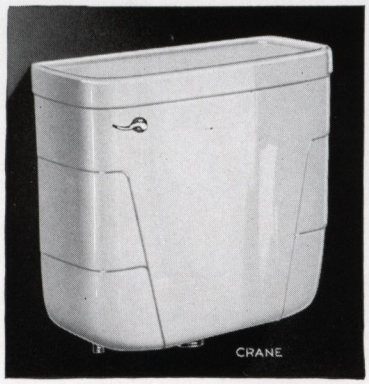
C 13734

Painted inside and outside, cast iron tank with ⅜″ top supply float valve, gooseneck siphon and nickel plated chain with wood pull.

Size	Length	Width	Depth
5 gallon	16¾″	9″	10″
6 gallon	17½″	9¾″	10″
7 gallon	21″	10¾″	9½″



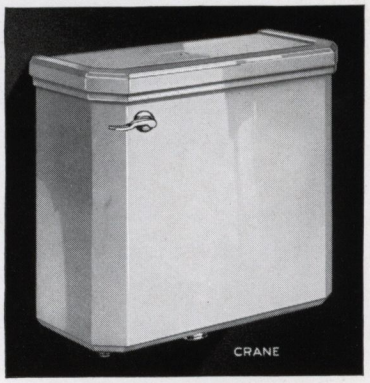
LOW CLOSET TANKS



NEUMODE—C 13580

Vitreous china tank with shelf cover, bottom supply float valve, flush valve, *Easyac* lever, 2″ flush connection and ⅜″ supply to floor.

Size	Length	Width	Height
18″ (6 gal.)	20″	7½″	16″



TRENTONIAN—C 13606

Vitreous china tank with shelf cover, bottom supply float valve, flush valve, *Easyac* lever, 2″ flush connection and ⅜″ supply to floor.

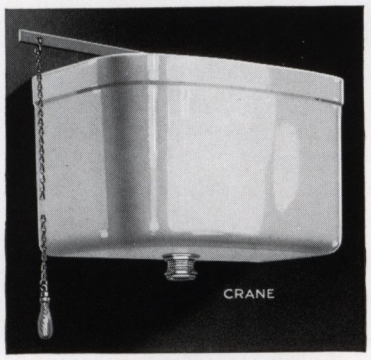
Size	Length	Width	Height
18″ (6 gal.)	20½″	8″	16½″
20″ (8 gal.)	22⅛″	8½″	16¾″

TRENTONIAN—C 13605

Same except for back supply. 18″ (6 gal.) size only.

All exposed metal chromium plated on low tank trimmings.

HIGH CLOSET TANKS



ALPINE—C 13720

Porcelain enameled inside and *outside tank with ⅜″ top supply float valve, gooseneck siphon and nickel plated chain with wood pull.

*Painted outside available.

Size	Length	Width	Height
6 gallon	17¼″	9¼″	12¼″
8 gallon	18¼″	10″	12¼″
10 gallon	20″	11″	12¼″



BELLEMEADE—C 13701

Vitreous china tank with concealed hanger, ⅜″ top supply float valve, gooseneck siphon and nickel plated chain with wood pull.

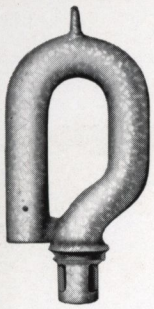
Size	Length	Width	Height
6 gallon	17¾″	10⅜″	12½″
8 gallon	19¾″	11¾″	12½″

Tank Trimmings . . . . . Page 56-2

Closet Bowls . . . . . Pages 51-2 to 52-2

CRANE CLOSET TANK TRIMMINGS

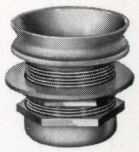
HIGH TANK FITTINGS



C 13-800

Galvanized gooseneck siphon for 10″ deep tank.

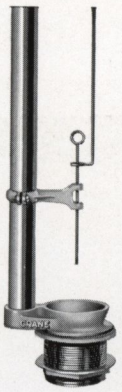
Sizes: 1¼″, 1⅜″ and 1½″



C 13-802

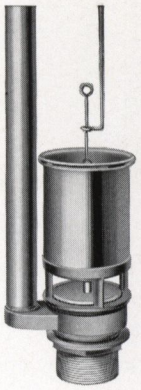
Brass valve seat with locknut and 1½″ female coupling, for gooseneck siphon.

LOW TANK FLUSH VALVES



C 13-831

2″ Flush valve with guide, lift wires and locknut.

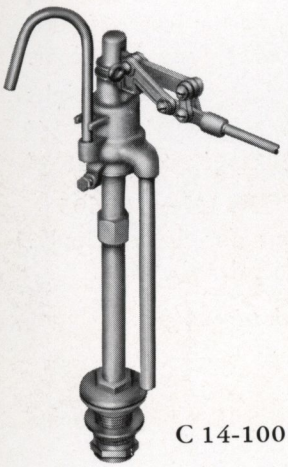


C 13-834

2″ *Curtin* flush valve with float, lift wires and locknut.

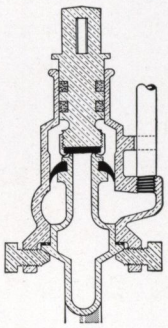
LOW TANK FLOAT VALVES

Furnished with Float Rod and Refill Tube



C 14-100

Hy-Lo quiet acting bottom supply elevated float valve.



Hy-Lo Features

Hy-Lo float valves are quiet under high pressures. A double packed plunger prevents squirting.

For operation under low pressures cup washer can easily be removed for rapid filling.

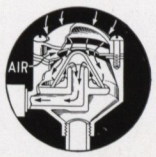
←—By simply loosening two hex screws the complete operating assembly can be lifted from the tank for repair or adjustment.

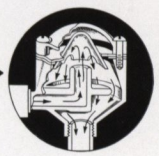
Plunger can be taken out by removing one thumb screw.

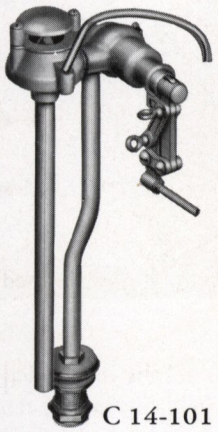
In addition to the above features, the C 14-101 *Hy-Lo* offers complete protection against back-flow and cross-connections in the low closet tank.

Under vacuum, air drawn in thru → vent dissipates the vacuum, preventing water from entering supply line.

When filling, water raises the cone, → sealing the air opening.





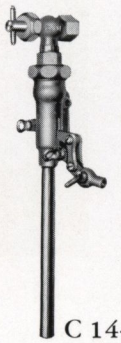


C 14-101

Hy-Lo vacuum breaker quiet-acting bottom supply float valve.

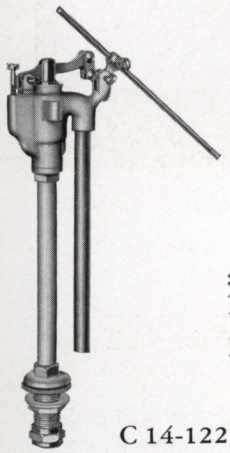
IMPORTANT

When ordering specify measurement from inside bottom of tank to top of overflow.



C 14-116

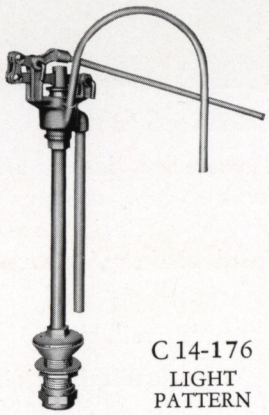
⅜″ Back supply float valve with stop to regulate pressure.



C 14-122

Curtin quiet-acting bottom supply elevated float valve.

C 14-124. for back supply.



C 14-176
LIGHT PATTERN

Bottom supply elevated float valve.

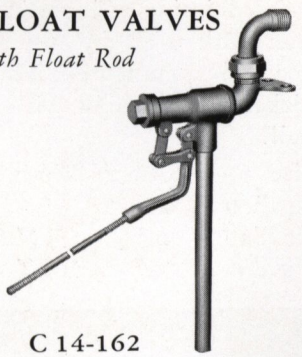
HIGH TANK FLOAT VALVES

Furnished with Float Rod



C 14-164

Bottom supply float valve.



C 14-162

⅜″ Top supply float valve.

Rubber Tank balls . . . . . Page 189-1

Closet Tanks . . . . . Page 55-1

1¼″ WOOD SEATS



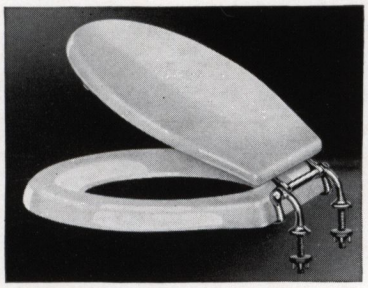
C 14-700

For Plain Rim Bowl

*Closed front seat and cover with square back and bar hinge.

C 14-720

Same without cover.

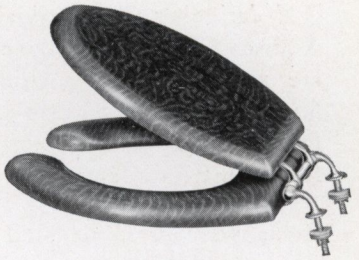


C 14-710

For Plain Rim Bowl

Closed front seat and cover with square back and bar hinge.

Sprayed White Finish.



C 14-722

For Plain Rim Bowl

*Open front seat and cover with square back and bar hinge.

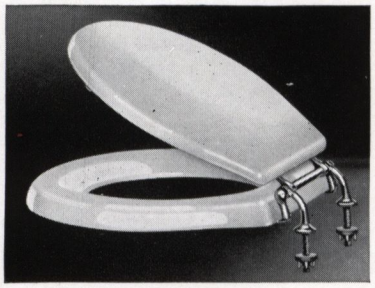
C 14-724

Same without cover.

**Finished in Golden Oak, Natural Oak or Birch Mahogany.*

SHEET COVERED SEATS

Available in White, Plain Colors and Sea Pearl. (Also less cover when specified).



C 15-002 (Plain rim)
C 15-002-E (Elongated)

1¼″ closed front seat and cover with square back and chromium plated bar hinge.

C 14-986 (Plain rim)
C 14-986-E (Elongated)

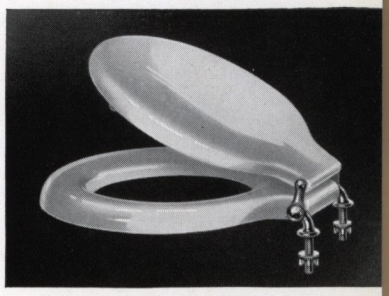
Same except 1½″ stock.

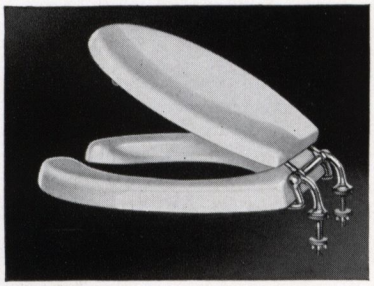
C 15-006 (Plain rim)
C 15-006-E (Elongated)

1¼″ closed front seat and cover with extended back and white or chromium plated concealed hinge.

C 14-970 (Plain rim)
C 14-970-E (Elongated)

Same except 1½″ stock.





C 15-004 (Plain rim)
C 15-004-E (Elongated)

1¼″ open front seat and cover with square back and chromium plated bar hinge.

C 14-987 (Plain rim)
C 14-987-E (Elongated)

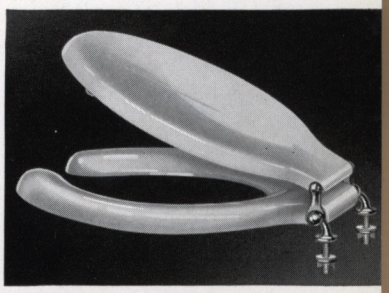
Same except 1½″ stock.

C 15-008 (Plain rim)
C 15-008-E (Elongated)

1¼″ open front seat and cover with extended back and white or chromium plated concealed hinge.

C 14-972 (Plain rim)
C 14-972-E (Elongated)

Same except 1½″ stock.



EBONY FINISH HARD RUBBER SEATS

Available with cover when specified



C 14-905

For Plain Rim Bowl

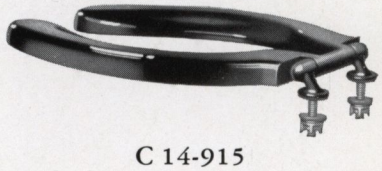
Open front, closed back seat with rubber check hinge.



C 14-911

For Elongated Rim Bowl

Open front, closed back seat with rubber check hinge.



C 14-915

For Elongated Rim Bowl

Open front and back seat with rubber check hinge.

Closet seat bumpers . . . . . Page 189-1

CRANE SANITARY URINALS

IN designing Crane urinals, the many hygienic principles essential to health have been carefully considered. They are made of vitreous china or Duraclay, from the very finest materials obtainable. The complete line includes a fine selection of stall, pedestal and wall types in sizes to fulfill practically any requirement or condition.

Crane vitreous china stall urinals are furnished with an integral flushing rim which distributes the water more evenly and gives a more thorough cleaning than is possible with a metal spreader.

It eliminates the metal from within the stall, presents a cleaner appearance and prevents any possibility of corroding or need of replacement.

Crane vitreous china wall urinals include a full selection of blowout, siphon jet and washout types, each particularly suited for a definite type installation.



A typical installation of Crane vitreous china urinal stalls.



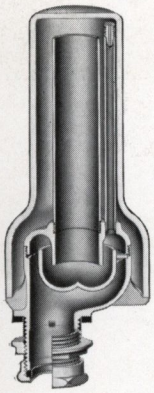
To the right a typical installation of Crane Rio blowout urinals is shown.

"ALERT" FLUSH VALVE

For Automatic Urinal Tanks

Carefully designed for perfect performance at a minimum maintenance cost, the *Alert* automatic flushing valve has long past established a reputation for dependable, trouble free service. It is sturdily constructed to insure long life and is standard equipment with Crane automatic urinal tanks.

Superior Features



C 17890

There are no moving parts to get out of order. Siphons water from tank faster, hence is more efficient.

Will flush at intervals of from one to sixty minutes depending on rate of tank fill.

Eccentric outlet permits use in either center or end outlet tanks.

¾″, 1″, 1¼″, and 1½″ sizes available. The 1½″ size will satisfactorily flush and refill two siphon jet or six washout urinals.

Alert valve requires tank at least 11¼″ deep inside.

MARVEL SELF-CLEANING SUPPLY VALVE

For Automatic Urinal Tanks

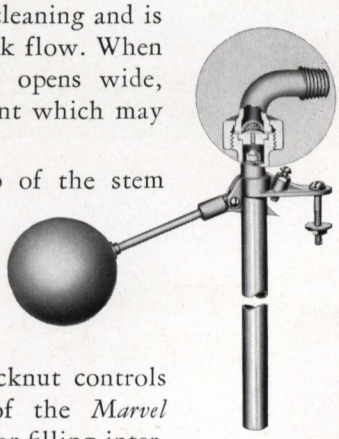
The *Marvel* valve is now regular equipment with all Crane automatic urinal tanks and permits throttling down the supply without wire-cutting or clogging. Being never completely shut off, a stop should be provided in an accessible place in the supply line.

Superior Features

The *Marvel* valve is self-cleaning and is constructed to resist back flow. When tank flushes, the valve opens wide, washing out any sediment which may have collected.

The valve seat and tip of the stem are non-metallic, and a beehive strainer which can quickly be removed, protects the seat and stem.

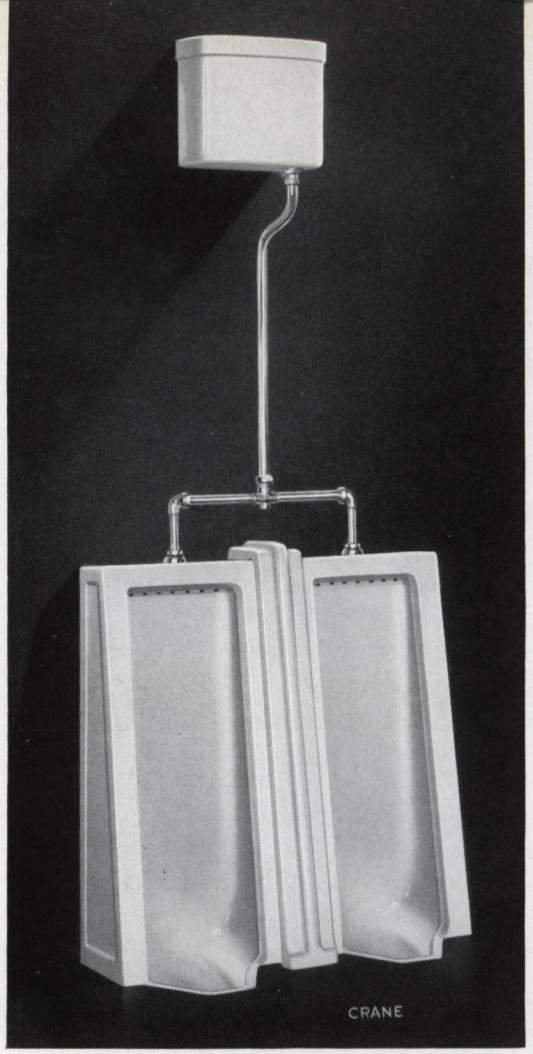
A single screw with locknut controls the discharging rate of the *Marvel* valve. Can be adjusted for filling intervals of from five to sixty minutes depending on water pressure and size of tank. Has ⅜″ I.P.S. inlet.



C 17896

CRANE VITREOUS CHINA URINALS

Patented



C 15390

SANITOR—C 15390

Urinals, *Sanitor* slope front stall, with integral flushing rims and separate seam covers.

Tank, C 17685 *Bellemeade*, with *Alert* automatic siphon valve and *Marvel* float valve.

Flush pipe, C 17751.

Strainers, C 17959.

All exposed metal chromium plated.

SANITOR—C 15392

Same except less the seam covers.

Note: Available singly and in batteries up to six urinals flushed with one tank.

Dimensions

Width	18″
Floor to top of stall	38¼″
Set in floor	3¾″
Wall to front of drip receptor	16″

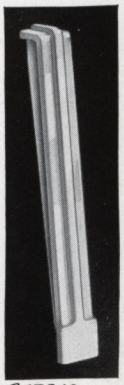
Sanitor Features

Offers new distinctive appearance and improved sanitation for the toilet room.

Slope front design encourages closer approach over lip of the urinal with consequent improvement in toilet room cleanliness and easier maintenance.

The new design drip receptor is unusually large to avoid soiling the floor and has straight sides to facilitate tilesetting.

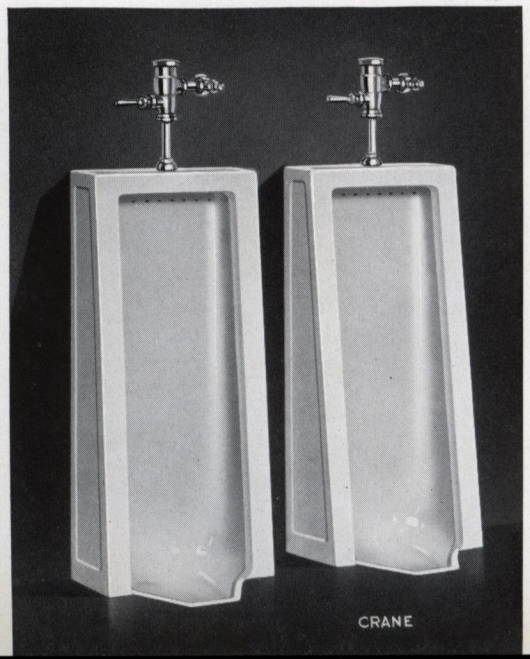
Anti-splash side rims prevent water from surging over the rim.



C 17542

Seam covers are available in two sizes, one to set urinals on 20 to 22″ centers, the other 22 to 24″ centers. They give one piece appearance to a battery of urinals and facilitate cleaning by eliminating the hard-to-clean spaces between stalls.

C 15396



SANITOR—C 15396

Urinals, *Sanitor* slope front stall, with integral flushing rims

Valves, C 12981 *Delta*, with ½″ angle stops.

Strainers, C 17959.

All exposed metal chromium plated.

SANITOR—C 15394

Same except with separate seam covers.

High Tanks . . . . . Page 64-1 *Trimmings . . . . . Page 65-1*

CRANE SANITARY URINALS

C 15400—Vitreous China
Patented

Urinals, flushing rim stall, with separate extended seam covers.

Tank, C 17685 *Bellemeade*, with *Alert* automatic siphon valve and *Marvel* float valve.

Flush pipe, C 17751.

Strainers, C 17959.

All exposed metal chromium plated.

Sizes: 15″, 18″ and 21″ Stalls available.

C 15420—Vitreous China

Same except less the seam covers.

Note: Single stall combinations and batteries up to six urinals can be flushed with one tank.

Porcelain (all clay) Stalls
(Not illustrated)

15″, 18″, 21″ and 24″ size porcelain (all clay). urinal stalls **with metal spreaders** are available.

To order, mention *porcelain* with catalogue number of the combination selected.

Back Inlet Stalls

18″ size china or porcelain stalls with back inlet are available on special order.

C 15425—Vitreous China
Patented

Urinals, flushing rim stall.

Valves, C 12981 *Delta*, with ½″ angle stops.

Strainers, C 17959.

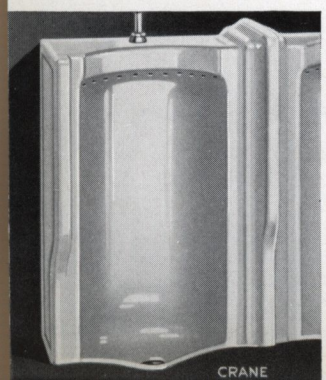
All exposed metal chromium plated.

Sizes: 15″, 18″ and 21″ stalls available.

C 15405—Vitreous China

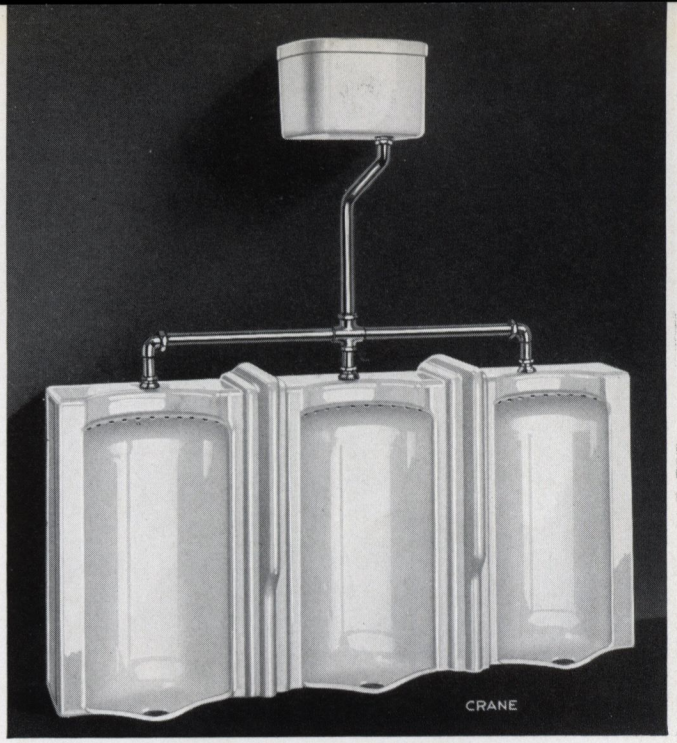
Same except with separate extended seam covers.

When straight front stalls (18″ china only) are set in battery with intermediate extended seam covers, the end stalls can be furnished with integral extended shield on left or right side as required.



Specify **C 15401** for C 15400 combination furnished accordingly.

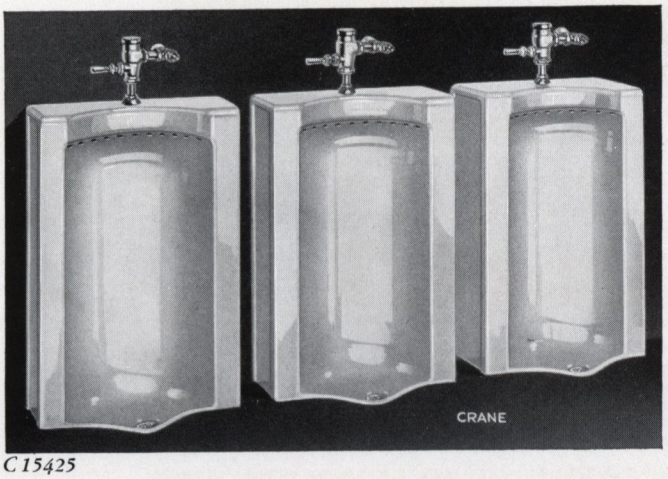
Specify **C 15406** for C 15405 combination furnished accordingly.



C 15400

Dimensions

Floor to top of stall—china	38¾″
—porcelain	39½″
Set in floor	3¾″
Wall to front of drip receptor	15¼″



C 15425

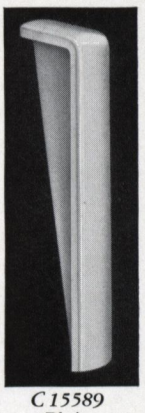
SEAM COVERS FOR URINAL STALLS

China or porcelain (as specified) seam covers are available in two styles, plain or extended front. They give one piece appearance to a battery of urinals and eliminate hard-to-clean spaces between stalls.

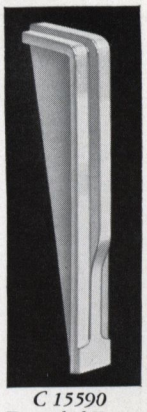
Sizes: 3″ and 6″.

3″ to set stalls 2½″ to 3½″ apart.

6″ to set stalls 3½″ to 6″ apart.



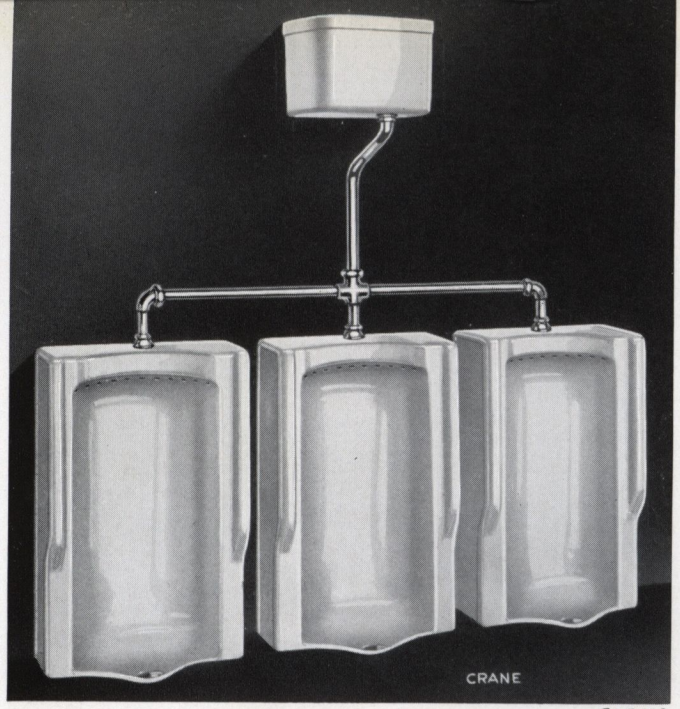
C 15589
Plain



C 15590
Extended Front

High tanks . . . . . Page 64-1 *Flush Valves . . . . . Page 53-2* *Trimmings . . . . . Page 65-1*

CRANE SANITARY URINALS



C 15410

C 15410—Vitreous China
Patented

Urinals, flushing rim stall, with integral extended shields.

Tank, C 17685 *Bellemeade*, with *Alert* automatic siphon valve and *Marvel* float valve.

Flush pipe, C 17751.

Strainers, C 17959.

All exposed metal chromium plated.

Size: 18″.

C 15415—Vitreous China

Same except with C 12981 *Delta* valves in place of tank and flush pipe.

Note: Single stall combinations and batteries up to six urinals can be flushed with one tank.

Dimensions

Floor to top of stall—china	38¾″
—porcelain	39½″
Set in floor	3¾″
Wall to front of drip receptor	15¼″

Porcelain (all clay) Stalls
(Not Illustrated)

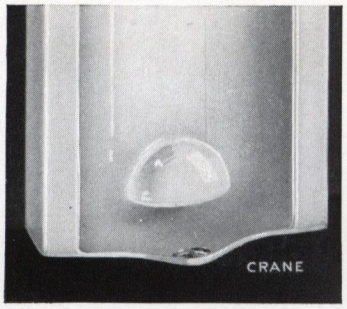
18″ and 24″ size porcelain (all clay) urinal stalls **with metal spreaders** are available.

To order, mention *porcelain* with catalogue number of the combination selected.

Back Inlet Stalls

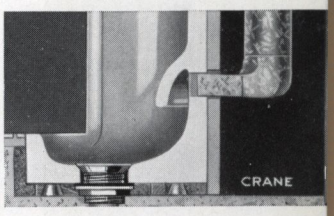
18″ size china or porcelain stalls with back inlet are available on order.

URINALS WITH HOODED VENTS



Urinal stalls with hooded vents are recommended for toilet rooms that cannot be properly ventilated. The vent opening has an area of 12 square inches and is located where it is most effective in drawing off room and stall area odors. The hood is especially designed to shed the flushing water without splashing.

Any of the urinal stalls listed on this page and page 60-1 can be furnished on special order with bottom hooded vents when required.



Section—showing vent pipe connection.

INSTALLATION OF URINAL STALLS

Vitreous china and porcelain (all clay) urinal stalls, because of the nature of the materials of which they are made, require careful handling and a knowledge of the usual procedure in installing them. Damage to urinal stalls because of strains will be greatly reduced or avoided if the following suggestions are used as a guide:

A. A pit should be provided in the rough floor of sufficient depth to allow the lip of the urinal to set flush with the finished floor, with a *sand cushion of not less than 1-inch under the stall.* Finished floor should be sloped to drain into the lip of the stall.

B. A space of not less than ½-inch should be allowed between edge of pit in the rough floor and the stall, to be filled with sand.

C. A space of not less than ⅛-inch filled with a plastic waterproof compound should be provided between finished floor and stall.

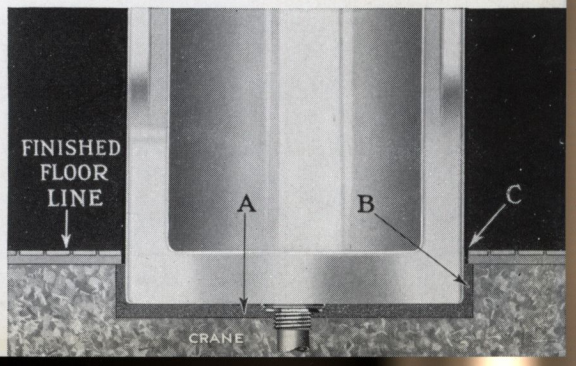
Caution

Urinals should not be cast in, clamped, or rigidly fastened to floors or walls. Wainscotting should never be set directly on top of urinals.

Do not use wood blocks under stall.

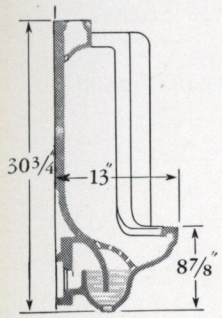
Trap should be anchored solidly to prevent piping strain.

Do not install urinals until one week after rough floors are cast.



High Tanks . . . . Page 64-1 *Trimmings . . . . Page 65-1*

CRANE VITREOUS CHINA URINALS



Correcto
Width overall—18"

CORRECTO—C 15601

Urinal, *Correcto* washout, with extended shields, integral strainer, trap with cleanout, 2" female outlet connection, and supporting bolts.

Tank, C 17685 *Bellemeade*, with *Alert* automatic siphon valve and *Marvel* float valve.

Flush pipe, C 17751.

All exposed metal chromium plated.

Four *Correcto* urinals can be flushed with one *Bellemeade* tank.

CORRECTO—C 15609

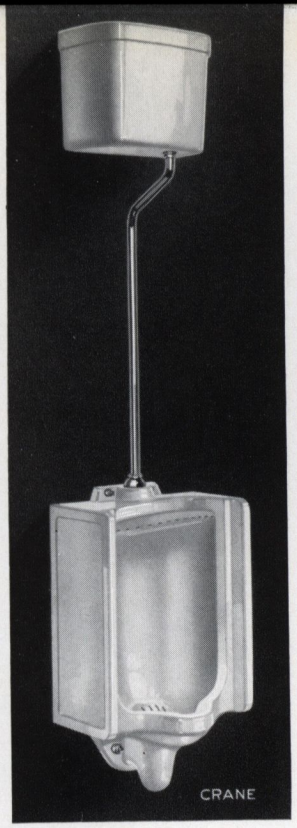
Same except with C 12981 *Delta* valve.

Correcto Features

Washout type. A quick rush of water fills the outlet passageway to start siphonic action.

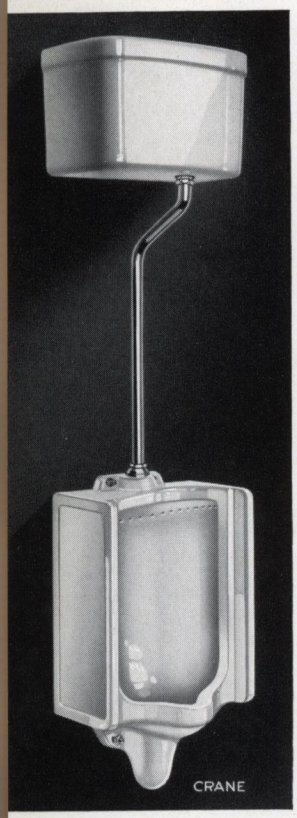
The integral strainer prevents clogging of the trapway.

Correcto urinals with ¾" back inlet available.



C 15601

C 15613



RIO—C 15613

Urinal, *Rio* blowout, with extended shields, trap with cleanout, 2" female outlet connection, and supporting bolts.

Tank, C 17685 *Bellemeade*, with *Alert* automatic siphon valve and *Marvel* float valve.

Flush pipe, C 17751.

All exposed metal chromium plated.

RIO—C 15617

Same except with C 12901-W *Delta* valve with vacuum breaker.

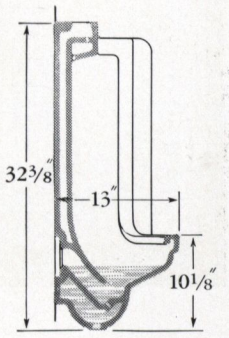
Rio Features

Recommended for installations where it is desired to keep all piping above floor.

Blowout type with jet. Having a short vigorous flush, it is economical in the use of water.

Inlet to trap is smaller than the trapway, giving assurance against stoppage in the trap.

Rio urinals with 1¼" back inlet available.



Rio
Width overall—18"

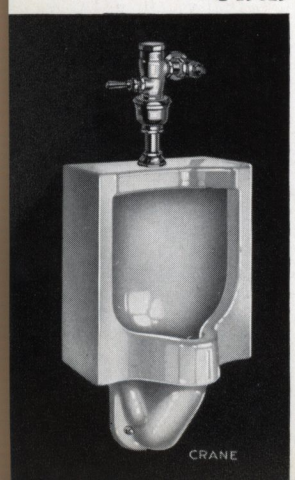
DEFLECTO—C 15625

Urinal, *Deflecto* blowout, with trap, 2" female outlet connection with bolts, concealed hangers.

Valve, C 12901-W *Delta*, with 1" angle stop, *Vigilant* vacuum breaker.

All exposed metal chromium plated.

C 15625



DEFLECTO—C 15621

Same except with *Bellemeade* tank and C 17751 flush pipe.

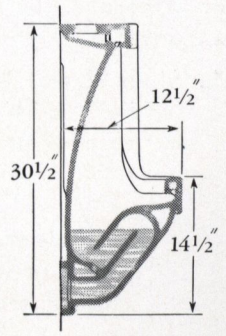
Deflecto Features

Recommended for public buildings where cigar stubs and other refuse are often thrown into urinals.

Has exceptionally vigorous blowout action.

The slope back construction practically eliminates splashing, the splash being directed downward into the water surface.

Deflecto urinals with 1¼" back inlet available.



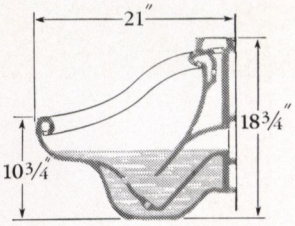
Deflecto
Width overall—18"

Flush Valves . . . . . Page 53-2

High Tanks . . . . . Page 64-1



C 15-629



Expedio
Width overall—14¾″

EXPEDIO—C 15-629

Urinal, *Expedio* blowout, with 2″ female outlet connection, and supporting bolts.

Valve, C 12-901-W *Delta*, with 1″ angle stop, *Vigilant* vacuum breaker.

All exposed metal chromium plated.

Expedio Features

Ideal for Public buildings for use with flushing valves only.

Blowout with jet. Has strong vigorous flushing action, economical in the use of water.

Has large trapway and deep water seal.

Expedio urinals with 1½″ back inlet are available. Can also be furnished with 3″ female outlet, if required.

C 15-643

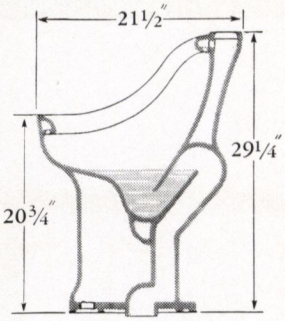


VORTO—C 15-643

Urinal, *Vorto* siphon jet pedestal, with china bolt caps.

Valve, C 12-901-W *Delta*, with 1″ angle stop, *Vigilant* vacuum breaker.

All exposed metal chromium plated.



Vorto
Width overall—14¼″

Vorto Features

For Public buildings where floor outlet urinals are required.

Full siphon jet. Flushing action is prompt and quiet.

Cigar stubs and other refuse will not cause stoppage in the trapway.

Has large water surface and deep water seal.

Vorto urinals with 1¼″ back inlet are available.

MANHATTAN—C 15-665

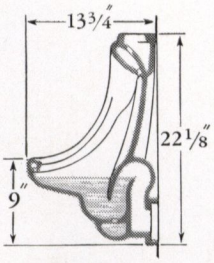
Urinal, *Manhattan* siphon jet, with 2″ female outlet connection, and supporting bolts.

Valve, C 12-901-W *Delta*, with 1″ angle stop, *Vigilant* vacuum breaker.

All exposed metal chromium plated.

C 15-665





Manhattan
Width overall—14¼″

Manhattan Features

A compact design for public places where space saving is necessary.

Efficient siphon jet action. A strong positive flush minimizes danger of clogging.

Has large water surface and deep water seal.

Can be used with flush valve or high tank.

Other type *Manhattan* urinals shown on Page 65-1.

Flush Valves . . . . Page 53-2

High Tanks . . . . Page 64-1

CRANE URINAL TROUGHS AND TANKS

PORCELAIN ENAMELED CAST-IRON TROUGH URINALS

Available in Regular or Acid-Resisting Enamel. Usually being subject to severe service, acid-resisting enamel should be specified to protect investment.

C 15-761
Patented

Urinal, enameled inside, painted outside roll rim trough, with lips, on concealed hangers.

Tank, C 17-689 *Alpine*, with *Alert* automatic siphon valve and *Marvel* float valve.

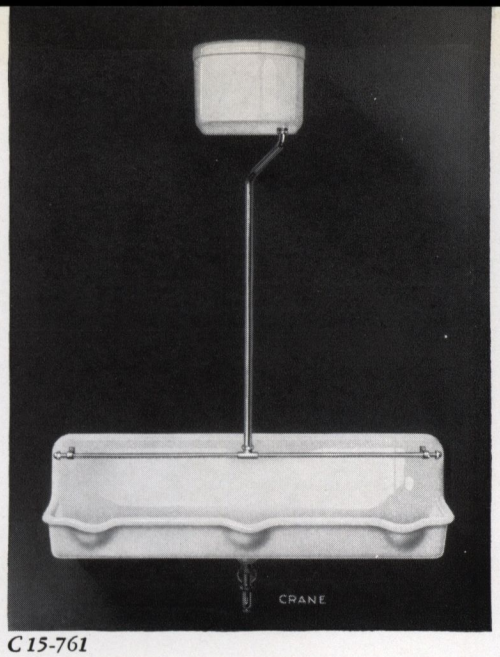
Flush pipe, C 17-751, with perforated washdown pipe and supports.

Strainer, brass beehive.

Trap, C 33-900 1½″ cast brass "P".

All exposed metal (except strainer) chromium plated.

Sizes: 14¾″ wall to front x 24″ with 1 lip, 36″ with 2 lips or 60″ with 3 lips.



C 15-761

C 15-764

Urinal, enameled inside, painted outside, roll rim trough, on concealed hangers.

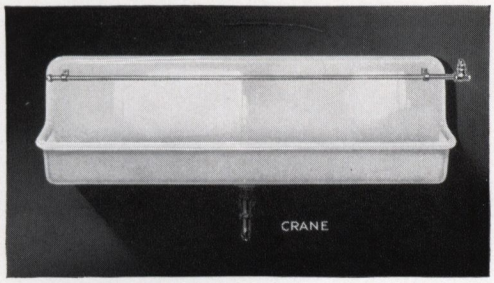
Flush pipe, C 17-751 perforated washdown, with lock shield stop and supports.

Strainer, brass beehive.

Trap, C 33-900 1½″ cast brass "P".

All exposed metal (except strainer) chromium plated.

Sizes: 12″ wall to front x 24″, 30″, 36″, 42″, 48″, or 60″.

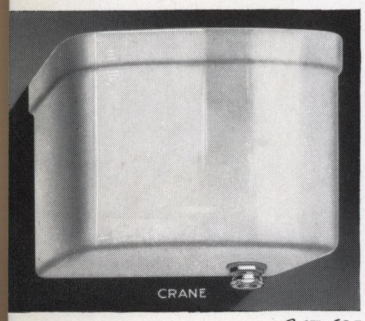


C 15-764

C 15-763

Same except with tank and flush pipe like C 15-761.

AUTOMATIC URINAL TANKS



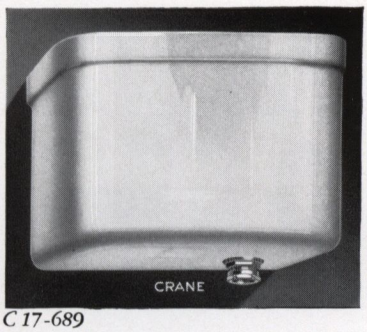
C 17-685

BELLEMEADE—C17-685
Patented

Vitreous china end outlet urinal tank with concealed hanger, *Alert* automatic siphon valve and *Marvel* float valve with ⅜″ I.P.S. inlet.

ALPINE—C 17-689
Patented

*Porcelain enameled cast iron end outlet urinal tank with *Alert* automatic siphon valve and *Marvel* float valve with ⅜″ I.P.S. inlet.



C 17-689

**Dimensions*

Tank No.	Capacity, Gallons	Size of *Alert* Valve Inches	Length, Outside, Inches	Width, Outside, Inches
1	2	¾	13¾	6
2	3¼	¾ or 1	14¾	7¾
3	4	1 or 1¼	15¾	9
4	6	1¼ or 1½	17¾	10½
5	8	1¼ or 1½	19¾	11¾

Inside depth of all tanks, 12″.

Available enameled inside and outside or enameled inside and painted outside.

**Dimensions*

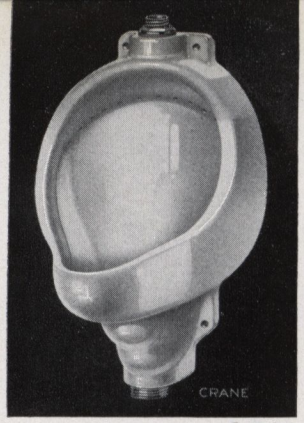
Tank No.	Capacity, Gallons	Size of *Alert* Valve Inches	Length, Outside, Inches	Width, Outside, Inches
1	2	¾	13¼	4¾
2	3¼	¾ or 1	14¼	6½
3	4	1 or 1¼	15¼	7¾
4	6	1¼ or 1½	17¼	9¼
5	8	1¼ or 1½	18¼	10
6	10	1¼ or 1½	20	11

Inside depth of all tanks, 12″.

For Chain Pull High Tanks See Page 55-1

For Details on Alert and Marvel Valves See Page 58-1

VITREOUS CHINA WALL URINALS



C.17614

MANHATTAN SIPHON JET

C 17612—with 1¼″ back inlet and 2″ female back outlet connections.

C 17614—with 1¼″ top inlet and 2″ bottom outlet connections.

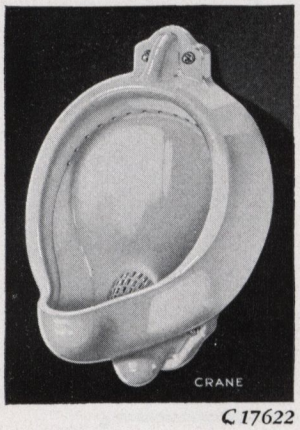
C 17616—with 1¼″ top inlet and 2″ female back outlet connections.

C 17618—same as C 17616 except with hood vent.

See Page 63-1 for dimensions.



C 17640



C 17622

SANTO WASHOUT (with integral strainer)

C 17620—with ¾″ top inlet and 2″ female back outlet connections.

C 17622—with ¾″ female back inlet and 2″ female back outlet connections.

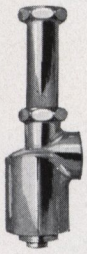
14¼″ wide x 14″ wall to front.

BEDFORDSHIRE FLAT BACK

C 17640—with integral strainer, ¾″ top inlet and 1½″ bottom outlet connections.

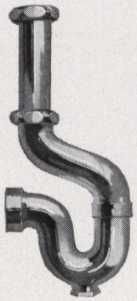
16″ wide x 12½″ wall to front.

URINAL TRIMMINGS



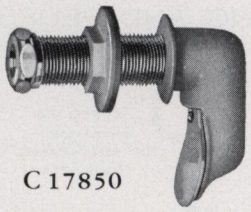
C 17947

1½″ cast brass urinal trap with female iron pipe outlet.



C 17949

1½″ cast brass urinal "P" trap with female iron pipe outlet.

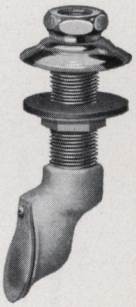


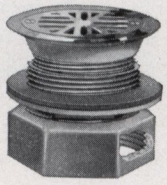
C 17850

Brass fan spreader with ¾″ slip joint inlet for back supply urinal stalls.

C 17852

Brass fan spreader with ¾″ slip joint inlet for top supply urinal stalls.





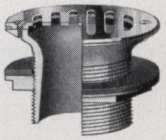
C 17954

Flat urinal strainer with adjustable outlet. For 2″, 2½″ or 3″ iron pipe.



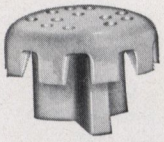
C 17955

Beehive urinal strainer with adjustable outlet. For 2″, 2½″ or 3″ iron pipe.



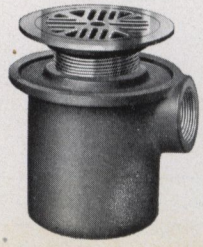
C 17959

Flat urinal strainer for intermediate lead connection with 2″ lead, iron or soil pipe, 4⅜″ diam. flange.



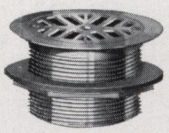
C 17992

Vitreous china raised strainer for use in siphon-jet wall urinals.

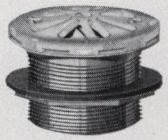


C 17970

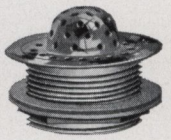
Combination strainer and trap for urinals and showers with 2″ I.P. outlet, 4⅜″ diam. strainer.



C 17960-M
Metal Strainer



C 17960-C
China Strainer



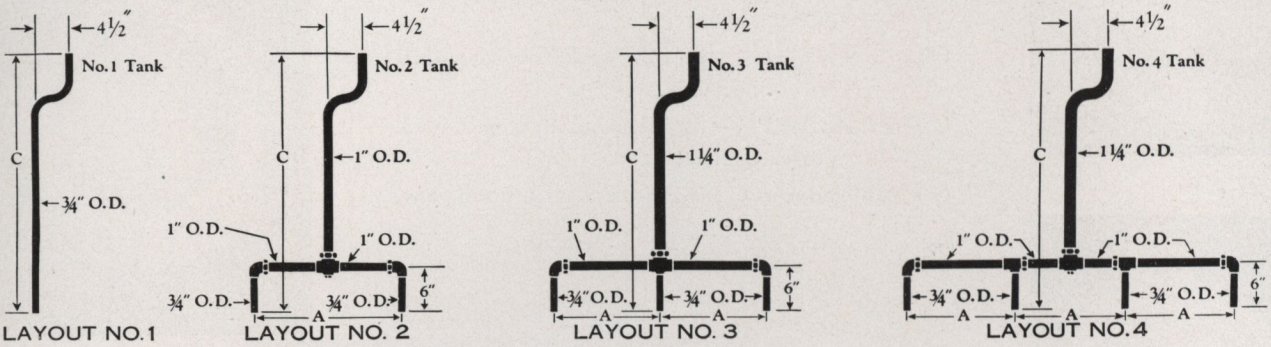
C 17961
Beehive Strainer

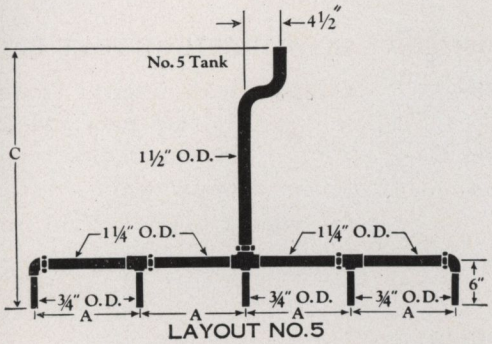
Universal strainer for 2″ lead, iron or soil pipe, 4⅜″ diameter flange. Soldered when lead pipe is used and caulked inside when using soil or iron pipe.

All exposed metal chromium plated

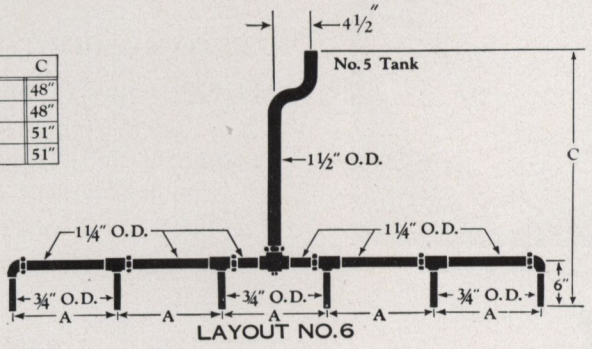
C 17751, FLUSH PIPE ASSEMBLIES FOR CRANE URINALS WITH HIGH TANKS

STALL CORRECTO SANTO AND BEDFORDSHIRE WASHOUT URINALS

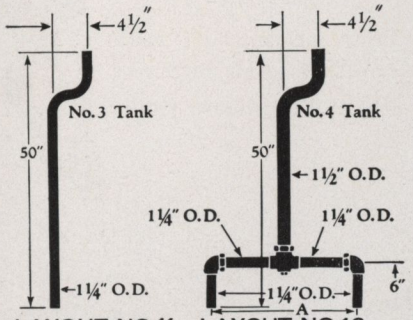




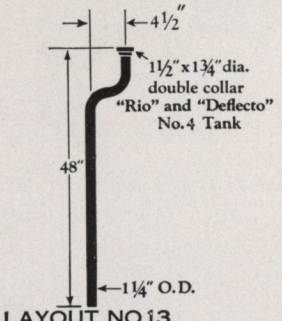
URINAL	C
STALL	48"
CORRECTO	48"
SANTO	51"
BEDFORDSHIRE	51"



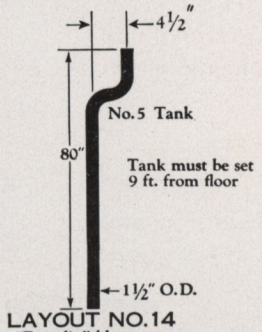
WALL HANGING AND PEDESTAL URINALS



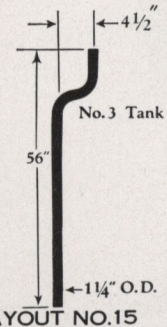
"Manhattan" siphon jet wall urinal (C 15663)



"Rio" and "Deflecto" blow-out wall urinals (C 15612 and C 15620)

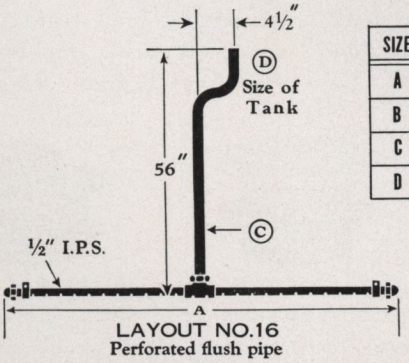


"Expedio" blow-out wall urinal (C 15628)

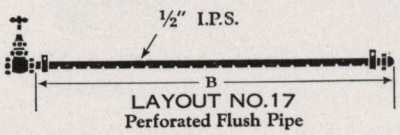


"Vorto" siphon jet pedestal urinal (C 15644)

TROUGH URINALS



SIZE	24"	30"	36"	42"	48"	60"
A	20¾	26¾	32¾	38¾	44¾	55½
B	22	28	34	40	46	56¾
C	¾ O.D.	¾ O.D.	¾ O.D.	¾ O.D.	¾ O.D.	1 O.D.
D	NO. 1	NO. 1	NO. 2	NO. 2	NO. 2	NO. 3





C 17832
Support for perforated flush pipe
Size ½" ¾"



C 17833
Support for perforated flush pipe
Size ½" ¾"

For Ordering Specify Catalogue and Layout Number as shown in the following example:
C 17751, Layout No. 6, Chromium plated brass Urinal Flush Pipe Assembly; "A"—inches; "C"—inches

Urinals . . . . . Pages 58-1 to 64-1

Urinal Tanks . . . . . Page 64-1

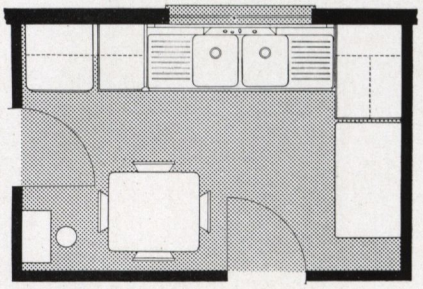


Typical illustration of Kitchen Queen.

CRANE MODERN SINKS

Within the following pages, Crane leadership in advanced sink design and efficiency becomes self evident. Sinks of vitreous china, porcelain (all clay) and porcelain enamel on cast iron are available in types and sizes to suit all requirements and any budget. Constructed to withstand hard usage the materials used in their production are the very finest obtainable.

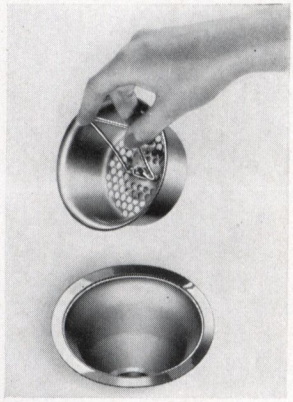
For quick reference the general contents comprising the Crane sink section are listed below.



Helpful suggestions and layouts to be found on Pages 67-2 to 67-5 will assist you in planning a Crane efficient kitchen.

KITCHEN CABINET SINKS – – – – – – – – PAGES 67-1 to 71-2
ROLL RIM & APRON KITCHEN SINKS – – – – – – 69-2 to 70-2
FLAT RIM SINKS – – – – – – – – – – – – – – – – 71-1
SINK TRIMMINGS – – – – – – – – – – – – – – – – 72-1
SCULLERY SINKS – – – – – – – – – – – – – – – – 72-2
COMBINATION SINK and LAUNDRY TUBS – – – – – – – – 73-1
LAUNDRY TUBS – – – – – – – – – – – – – – 73-2 to 75-1
LAUNDRY TUB TRIMMINGS – – – – – – – – – – – – 74-1
SERVICE SINKS – – – – – – – – – – – – – 75-2 to 76-1
TRAP STANDARDS & RIM GUARDS – – – – – – – – – 76-2

1.



For efficiency and beauty of design, Crane Co. conscienciously feels that with the *Kitchen Queen*, *Kitchen Pride*, *Sunnyday*, and *Homemaker*, they have produced the finest cabinet type sinks thus far offered to the public. These sinks incorporate many new features, developed for the convenience and comfort of the user. A few of these superior features are illustrated on this page.

1.—By a simple flip of the large convenient handle on the new *Recepto* waste, the sink compartment is instantly converted into a dishwashing basin or quickly drained. The large capacity cup strainer may be lifted out and emptied without touching accumulated waste matter—a guard against clogged drains.

2.—Sinks set 36 inches, floor to rim—the most comfortable working height.

3.—Top drawer bottoms and a sliding cutlery compartment in the right hand drawer have removable linoleum lining to deaden sound and protect finish.

4.—A low back, only 4″ high, permits installation under a low window. The panel ledge provides a safe place to stand expensive stemware.

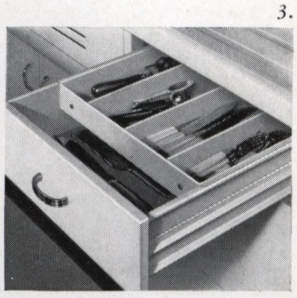
5.—Drainboards are depressed a full 1″ for freer use of spray in rinsing dishes or in flushing sink surfaces without water surging over the rim.

6.—A recess sub-base provides toe space—eliminates scuffing shoes or cabinet and permits correct posture.

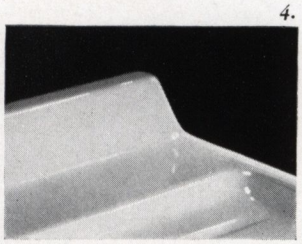
2.



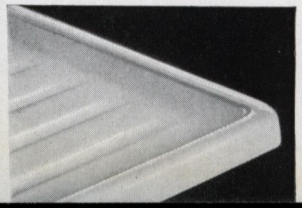
3.



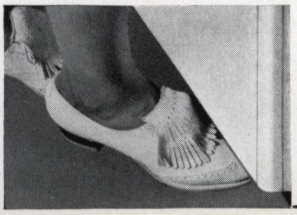
4.



5.



6.



Planning the Kitchen

THE kitchen is no longer just a room designed for work. True, the step-saving efficiency of the modern kitchen is a basic requirement, but architects have found that women expect much more from kitchens than simply a place in which to work.

For example, Mrs. Smith wants a modern breakfast bar in her kitchen; while Mrs. Brown, who does a lot of entertaining, finds her kitchen just the place for a midnight snack. Mrs. Jones needs a convenient place to iron, and Mrs. Blake wants provision for a sewing machine in the kitchen, and so it goes.

Basically, however, every kitchen plan will comprise the three major work areas in their logical order and around these areas the kitchen will be planned.



FIRST

The Storage Area

This area includes the refrigerator and cabinets for storing food. Naturally, the number of cabinets depends upon the size of the kitchen and its general layout. The storage area is located close to the receiving door. Groceries delivered here can thus be stored immediately without the necessity of carrying them across the kitchen. A generous counter area is also desirable in the storage area, and is provided by the tops of the storage cabinets. The continuous counter provided in the modern kitchen connects all the work areas. It gives so much room for food preparation that the crowded kitchen table is a thing of the past; and the luxury of lots of space both for storage and work area not only means greater convenience but actually represents a saving in time as well.



SECOND

The Preparation Area

This area includes the sink, cabinets, where pans and other utensils may be stored, and sufficient counter space for food preparation. Of primary importance in this area, of course, is the sink. This may be white or colored, and may have one or two compartments. Because of the desirability of ease in cleaning, the sink should preferably be made of highly glazed porcelain enamel on cast iron. If the kitchen is small, the compact little *Homemaker* sink with its single compartment and single drainboard will give the maximum in convenience for the space required. In a larger kitchen, however, either the *Sunnyday* with its two drainboards or the *Kitchen Queen* with two compartments is to be preferred.

The complete Crane line of sinks includes all types and is shown on following pages.



THIRD

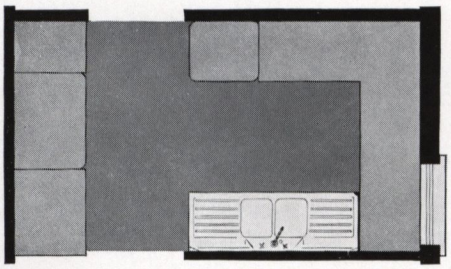
The Serving Area

Like the former two areas, this third one should have ample counter and cabinet space; but in addition, it contains the stove where the food next moves in a steady march from receiving area to table. It is desirable to locate this third area as closely to the dining room as possible, as this will save many unnecessary steps.

In color treatment and architectural treatment, of course, the kitchen offers as wide a field for imagination as any other room in the house. A few suggested ideas are shown in the following pages. The kitchens shown were planned by an architect—built and photographed in color. They are reproduced from the Crane Planner, available for consultation at any Crane Display Room.



THE U-TYPE KITCHEN



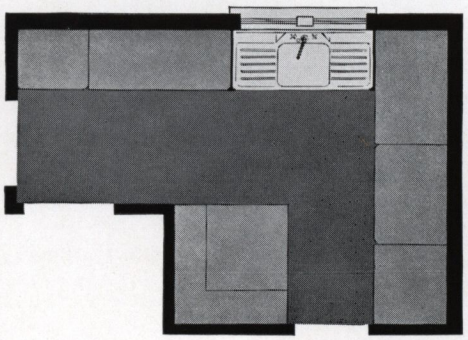
KITCHEN planning seems to fall into magical threes, for just as there are three working areas in the kitchen, so there are three basic type kitchens. These are the U, L and corridor types, illustrated and described here and on the following pages.

The U-type kitchen, like all basic types, may be small and simple in design, or it may be as elaborate as the one illustrated above. The refrigerator is at the left of the receiving door, followed by the storage cabinets and sink. The stove and serving area are at the right. This kitchen is provided with a dining alcove, ideal for the quick lunch or the impromptu midnight snack. A planning desk is provided, complete with telephone and radio. Nowhere are cabinets and storage space so necessary as in the kitchen. Each area should be well provided with sufficient cabinets to store the many things needed to make kitchen tasks easier.

Besides food storage cabinets for necessary utensils, pots and pans, utility cabinets are provided which may be seen at the right of the planning desk. These are designed to hold mops, brooms and dusters. Tall cabinets are also available with shelves for linen storage. The sink illustrated is the *Kitchen Queen*, a full 72 inches wide with two drainboards and two deep compartments — one of the many beautiful sinks described on following pages.



THE L-TYPE KITCHEN



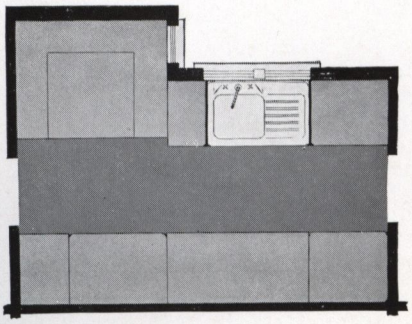
SECOND in the list of basic kitchen layouts is the L-type kitchen, where the working areas are laid out along two arms of a right angle. In the kitchen illustrated above, the receiving area is at the far end of the L containing a refrigerator and continuous counter top connected with the preparation area identified by the sink below the window on additional cabinets. The counter then makes a right angle turn and the stove is placed at the end of the L beside the door leading into the dining room. In this kitchen, as in the other two shown, an ever popular breakfast nook is provided; and the whole kitchen is done in a simple, yet effective, color harmony. Like all of today's kitchens, a place is provided for everything; and the complete absence of exposed shelving and corners for dirt and dust to lurk not only makes for greater sanitation, but greater ease in cleaning as well.

Windows above sink not only give more light where it is needed most, but also make the housewife's work more interesting. Today, they are practically a "must" in every kitchen plan.

The sink is the Crane *Sunnyday*, designed for modern, continuous counter-installation. It has a large compartment and two drainboards, every part of which may be reached by the retractable spray. This sink, together with others, is shown on following pages.



THE CORRIDOR TYPE KITCHEN



An extremely simple kitchen layout—one particularly suited for the small home or apartment is the corridor type. Here, a corridor runs the length of the room, one door adjoining the storage area, the other leading into the dining room. On either side of the corridor, the three working areas are placed. As will be seen in the illustration above, the receiving area and the cooking area are on the right of the room. The sink and the preparation area are on the left. A breakfast nook may be provided as illustrated, if desired. Again the modern demand for more storage space is answered; and while this kitchen is extremely compact and efficient, both walls are lined with cabinets, giving plenty of room in each of the three areas. One particularly notable achievement in the kitchen of today is the ample space for work provided by the cabinet tops—no more crowded table in the center of the kitchen.

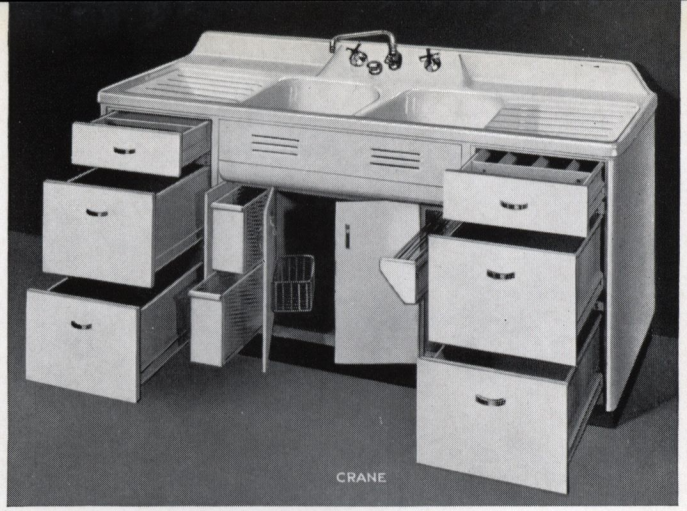
The sink shown in this corridor-type kitchen is the *Homemaker*, particularly adapted to the small kitchen. It has a single compartment and a single drainboard and is provided with the Crane comfort angle supply panel, containing mixing faucet and vegetable spray. The sink is in Crane sun tan, with cabinets in yellow—one of the many sinks described on following pages.

CRANE CABINET SINKS

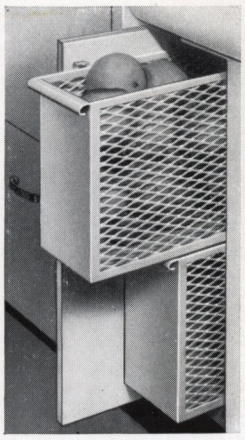
Features of the KITCHEN QUEEN and KITCHEN PRIDE Cabinet Sinks



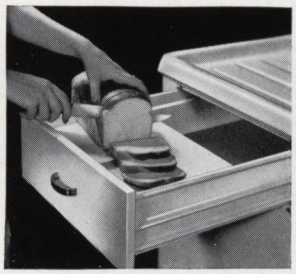
Twin basins 8" deep with Recepto hand operated wastes—supply fittings compactly grouped on "comfort-angle" panel—4" back.



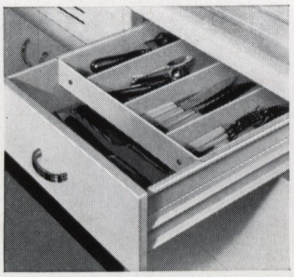
The *Kitchen Queen* cabinet, when opened, reveals an unusual amount of storage space, and includes as regular equipment the special features numbered 1, 2, 3, 4, 5 and 6 on this page. Unit may be used free standing or in a continuous counter installation.



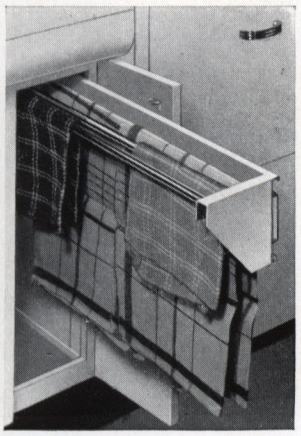
3. *Two removable containers for fruit or vegetables.*



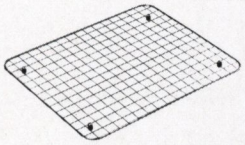
1. *Removable wood cutting board.*



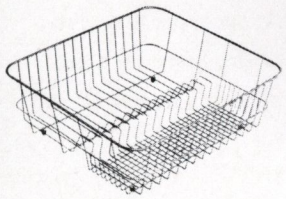
2. *Linoleum lined sliding cutlery compartment.*



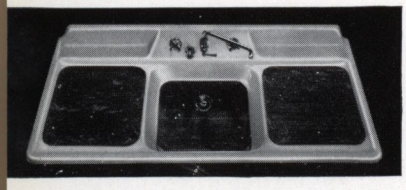
6. *Sliding towel drying rack*

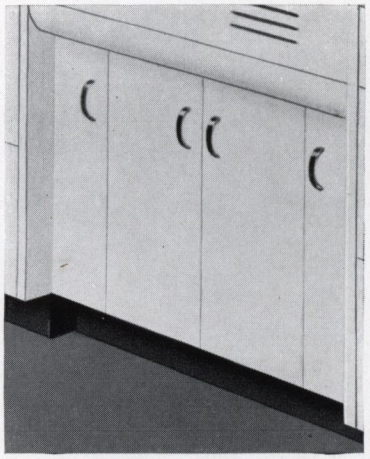


Wire sink mat.



Wire dish drainer.

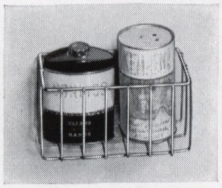




4. *Recessed center panel provides knee room.*

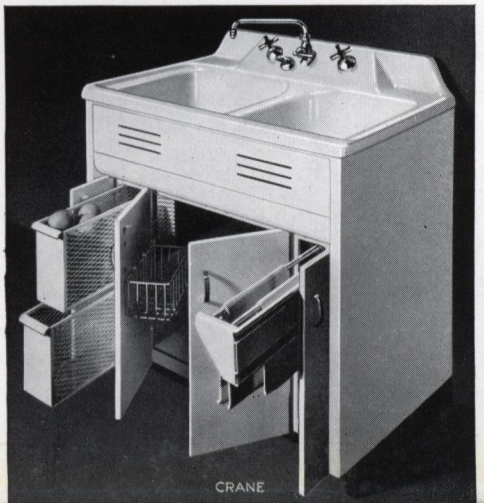
EXTRA ACCESSORIES: The wire dish drainer and sink mat shown to the left can be furnished for sink compartments at a slight extra charge. Both are substantially made and fitted with rubber feet.

Rubber mats for protecting sink compartments and drainboards are available. (see Page 189-2).



5. *Wire rack for cleaning agents.*

Opening a new avenue for originality in planning efficient kitchens, the *Kitchen Pride* may be used free-standing or in a continuous counter installation. The cabinet includes as regular equipment the special features number 3, 4, 5 and 6 on this page.



Additional Features Shown on Page 67-1

MR. CONTRACTOR:

This is *YOUR* Magazine

Use it to help you sell!



Designed as a selling aid for Crane Dealers, "The Home Desirable" has been demonstrating its value as such for almost seven years. Read these answers to every question you may have about this important sales help.

What Is "The Home Desirable"?

A twelve-page illustrated monthly magazine, attractively printed in two colors, and edited for home owners. It is designed to be mailed to your customers and prospects in your name which is printed boldly on the address side.

What Is Its Purpose?

It has two. One is to keep your customers and prospects reminded that you are the man to call when anything goes wrong with their present plumbing and heating equipment. The other and more important one is to make them want better and more modern kitchens, bathrooms, heating plants.

Why Is It Effective?

Because it gets into homes where a salesman often could not, and by means of readable, interesting, illustrated stories and articles about modern, up-to-date homes, builds up a desire for the plumbing and heating equipment you sell.

What Assurance Have I That It Will Work for Me?

Just this. It has been working for other contractors for the last six years, and if you mail it regularly to a good mailing list it can do the same for you. If it did not work, we'd be the first to abandon it, for every issue costs Crane Co. money.

Is It Hard to Make a Good Mailing List?

No. Take out your ledger and start with the names of your customers. Don't assume that they are "already yours" and that you don't need to keep after them. They forget you quickly, but if you pleased them the last time, they are your best prospects for the next job and ripe for the suggestive selling of "The Home Desirable." Add also names of new people in the neighborhood, names of doctors, dentists, beauty shops, barber shops, and libraries, places where people have time to read short stories and articles. Your Crane salesman will help you make up your list. Ask him.

How Big a List Do I Need?

About a hundred names make a good number to start with. Some contractors go as high as 600. You'll have no difficulty in finding 100 good names once you start building your list in systematic fashion.

What Is the Subscription Term?

There is no maximum and no minimum. Many contractors have been using "The Home Desirable" as long as it has been published.

What Does It Cost Me?

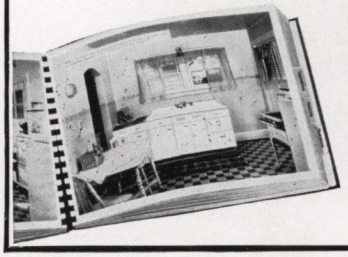
Your Crane branch will bill you monthly at 4c a copy for your share of the cost of preparing the magazines, printing with your name, address, 'phone number, etc., addressing to your list, postage, and mailing. Crane Co. pays the balance. If you want to do your own addressing and mailing, the charge is 2½c a copy, without postage, ready for addressing. In both cases, Crane Co. pays return postage so you will know if any copies are undeliverable and can keep your list corrected. Most contractors prefer to be rid of the bother and inconvenience of doing their own addressing and mailing each month, so they send us their lists and we handle all the details from Chicago. It's a little cheaper for them that way, too.

How Can I Start?

Ask your Crane salesman, or write to Milton D. Harper, The Home Desirable, 836 S. Michigan Avenue, Chicago, Illinois.

"BEFORE AND AFTER" Selling Album FREE!

As a user of "The Home Desirable" you receive, free of charge, this book of 74 before-and-after views of modernized kitchens, bathrooms, laundries, and basements. It's bound in fabric covers—with your name stamped on the front. Many contractors say this book, when displayed to modernizing prospects, is the best sales closer they ever used.



The HOME Desirable

836 SOUTH MICHIGAN AVENUE, CHICAGO, ILLINOIS

AD-1413

CONOVER ELECTRIC DISHWASHER

installed with

KITCHEN PRIDE SINK

Patented

When installed with a *Kitchen Pride* cabinet sink, the *Conover* electric dishwasher is an outstanding improvement in kitchen modernization. It does much to eliminate the drudgery of kitchen duties and its operation is utterly simple. The dishwashing unit is concealed in an attractive all-steel cabinet, harmonizing with the rest of the kitchen cabinets and providing a place where soiled dishes may be stored out of sight for washing later.

Advantages

Manual dishwashing and drying are eliminated.

Dishes are washed better and faster than is possible by hand.

Its great capacity makes dishwashing necessary only once a day—at the most convenient time.

Does not require attention while in operation. The homemaker is free to work elsewhere in the house while the dishes are being washed.

Dishes are not in motion during washing—no danger of breakage.

Washing, rinsing and drying are done at one loading.

Both sink and dishwasher cabinets have toe space provided, eliminating scuffing of shoes.

Wide doors of sink cabinet conceal a large storage compartment. A wire basket on one door holds soaps, etc.

Small doors on either side conceal two sliding, removable drawer-type fruit and vegetable bins on the left and a sliding towel rack on the right.

Sink has twin basins with all the advantages of two sink compartments, yet in one integral casting with no unsanitary joints and with no sharp corners.

Sink supply fixture is on a convenient "comfort-angle" panel, out of the way, yet easily reached.

Low back permits installing under low windows.

Increases value of property—a paying investment for home owners and builders.



Specifications

Dishwasher, *Conover* electric, with impeller for washing and rinsing, centrifugal pump for draining, ¼ H.P. motor, 60 cycle, 110 volt A.C., and supply and drain fitting.

Cabinet, white lacquered steel, with open-to-front, dishwasher compartment, porcelain enameled inside, Everdur sliding dish racks, and linoleum covered top with stainless steel edging.

Sink, Modified *Kitchen Pride* acid resisting enamel on cast iron, with twin basins, concealed hangers, arranged for dish washer supply and drain fitting.

Fixture, Modified C 32-820, ½″ swinging spout, with extra long spout, transfer valve and retractable hose and spray.

Wastes, C 33-880 *Recepto* hand operated.

Traps, 1½″ emery finish "P".

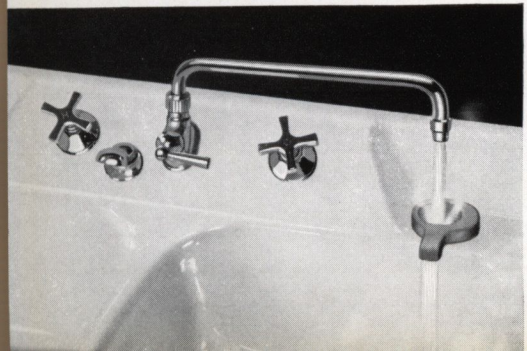
Cabinet, *Kitchen Pride* baked enamel steel, with recessed center section, double faced doors.

Moulding, C 19-925 joint finishing.

All exposed metal chromium plated.

Size: 38″ x 25¼″ sink—24″ x 25¼″ dishwasher.

Water for dishwashing is automatically measured, being run from the sink spout into the fitting on the drain ledge of the sink. When the correct amount of water has been admitted, the excess overflows into the sink, as shown.



The door and dish racks of the *Conover* are shown to the right. Two easy-sliding dish racks are easily and conveniently loaded or unloaded and greatly increase its washing capacity.



Additional Features Shown on Page 67-6

CRANE CABINET SINKS



C 19-070-S

KITCHEN QUEEN—C 19-070-S

Patented

America's Finest Kitchen Sink

Sink, *Kitchen Queen* acid resisting enamel on cast iron, with depressed drainboards, twin basins, concealed hangers.

Fixture, C 32-820, ½″ swinging spout, with transfer valve and retractable hose and spray.

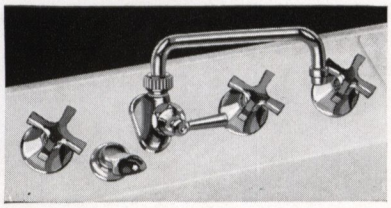
Wastes, C 33-880 *Recepto* hand operated.

Traps, 1½″ emery finish "P".

Cabinet, *Kitchen Queen* baked enamel steel, with recessed center section, double faced doors and drawers.

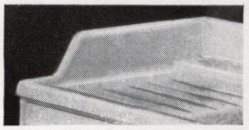
All exposed metal chromium plated.

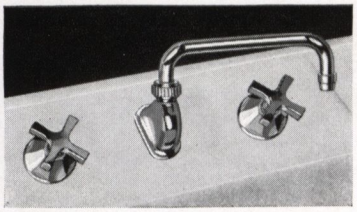
Size: 72″ x 25¼″.



Triple supply fixture available with *Kitchen Queen* and *Kitchen Pride* sinks. To order add SUFFIX "T" to catalog number.

Illustration of Integral End Piece on *Kitchen Queen* Sinks for corner or recess installation.





Two valve supply fixture less transfer valve, hose and spray available with *Kitchen Queen* and *Kitchen Pride* sinks To order omit SUFFIX "S" from catalog number.

C 19-071-LS—For above combination with sink having L.H. end piece.

C 19-071-RS—For same with R.H. end piece.

C 19-073-S—For same with two end pieces.

Sinks can also be furnished on order with large outlet (in R.H. basin only) to accommodate General Electric Waste Disposal Unit. Bottom of cabinet has to be modified and the towel rack omitted to provide space.



C 19-083-S

KITCHEN PRIDE—C 19-083-S

Patent Pending

America's Most Versatile Sink

Sink, *Kitchen Pride* acid resisting enamel on cast iron, with twin basins, concealed hangers.

Fixture, C 32-820, ½″ swinging spout, with transfer valve and retractable hose and spray.

Wastes, C 33-880 *Recepto* hand operated.

Traps, 1½″ emery finish "P".

Cabinet, *Kitchen Pride* baked enamel steel, with recessed center section, double faced doors.

All exposed metal chromium plated.

Size: 38″ x 25¼″.



Note: Flush Front cabinet with two doors and four small shelves furnished if specified on order.

Joint Finishing Mouldings . . . . Page 69-1

Dimensions . . . . Page 76-3

CRANE CABINET SINKS

Sunnyday Features

In addition to the superior features outlined on Page 67-1, a few of the many efficiency points to be found in a *Sunnyday* sink, include:

Supply fittings compactly grouped on "comfort-angle" panel, with retractable spray which pulls out from the panel to reach entire area of sink.

Extra large dishwashing compartment, 8″ deep, with narrow front rim to eliminate bending or reaching.

Spacious cabinet of specially prepared sheet steel, impervious to moisture or vermin, and warp-proof. The double faced doors and drawers are insulated to eliminate any "tinny" sound. Each cabinet includes cutlery drawer (as shown on Page 67-1), removable linoleum lining in top drawers, and storage rack on back of center door for cleaning agents.



Showing continuous counter arrangement with Sunnyday Sink.

For the home preferring a double drainboard sink with a single washing compartment—*Sunnyday* presents the most modern advance in sink design.

Note: Sinks can be furnished on order with large outlet to accommodate General Electric Waste Disposal Unit.

SUNNYDAY—C 19-150-S

Patented

The Axis of the Scientific Kitchen

Sink, *Sunnyday* acid resisting enamel on cast iron, with depressed drainboards, concealed hangers.
Fixture, C 32-820, ½″ swinging spout, with transfer valve and retractable hose and spray.
Waste, C 33-880 *Recepto* hand operated.
Trap, 1½″ emery finish "P".
Cabinet, *Sunnyday* baked enamel steel, with double faced doors and drawers.

All exposed metal chromium plated.

Sizes: 54″ x 25¼″ and 60″ x 25¼″.



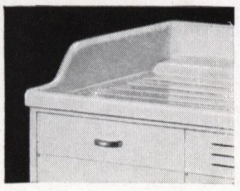
C 19-150-S

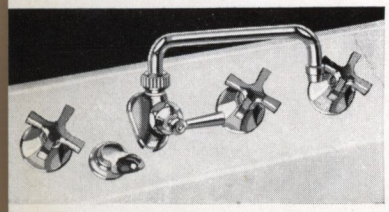
C 19-151-LS—For above combination with sink having L.H. end piece.

C 19-151-RS—For same with R.H. end piece.

C 19-153-S—For same with two end pieces.

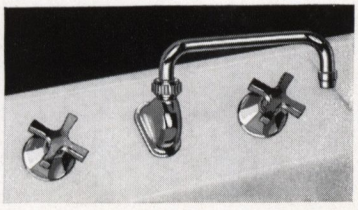
Illustration of Integral End Piece on *Sunnyday* Sinks for Corner or Recess Installation.





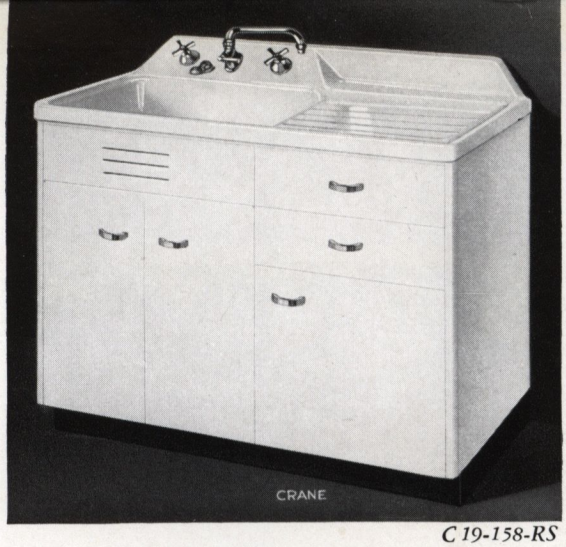
Triple supply fixture available with *Sunnyday* and *Homemaker* sinks To order add SUFFIX "T" to catalog number.

Two valve supply fixture less transfer valve, hose and spray available with *Sunnyday* and *Homemaker* sinks. To order omit SUFFIX "S" from catalog number.



Rubber Sink Mats . . . . Page 189-2

Dimensions . . . . Page 76-3



C 19-158-RS

CRANE CABINET SINKS

HOMEMAKER—C 19-158-LS
(Left hand drainboard)

HOMEMAKER—C 19-158-RS
(Right hand drainboard)

America's Most Practical Sink for the Small Home

Sink, *Homemaker* acid resisting enamel on cast iron, with depressed drainboard, concealed hangers.

Fixture, C 32-820, ½" swinging spout, with transfer valve and retractable hose and spray.

Waste, C 33-880 *Recepto* hand operated.

Trap, 1½" emery finish "P".

Cabinet, *Homemaker* baked enamel steel, with double faced doors and drawers.

All exposed metal chromium plated.

Sizes: 42" x 25¼" and 52" x 25¼".

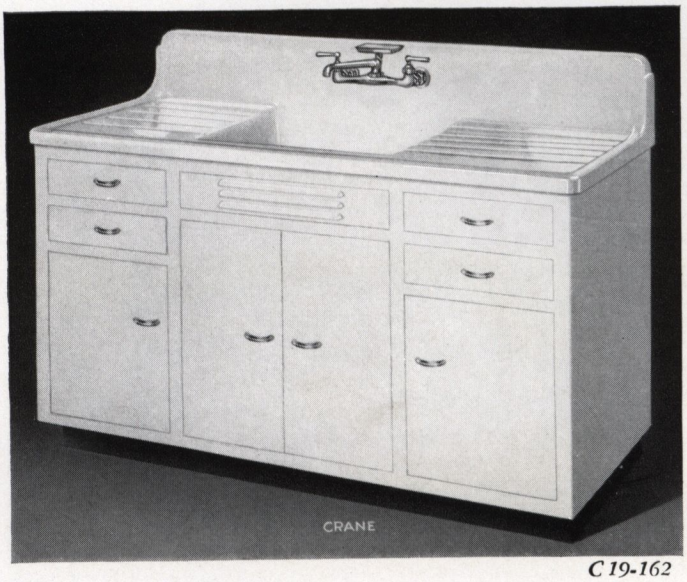
Note: *Homemaker* sinks are available with supply fixtures as shown at bottom of Page 68-2. Sinks can be furnished on order with large outlet to accommodate General Electric Waste Disposal Unit.

HOMEMAKER—C 19-161-LS

Same as C 19-158-RS except with integral end piece on basin side for corner installation.

HOMEMAKER—C 19-161-RS

Same as C 19-158-LS except with integral end piece on basin side for corner installation.



C 19-162

SUNNYSIDE—C 19-162

Sink, *Sunnyside* acid resisting enamel on cast iron, with drainboards, concealed hangers.

Faucet, C 32-751-AS, ½" *Rival* swinging spout, with metal soap dish.

Waste, C 33-880 *Recepto* hand operated.

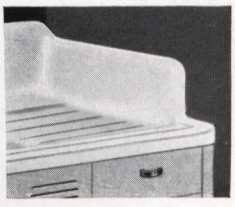
Trap, 1½" emery finish "P".

Cabinet, *Sunnyside* baked enamel steel, with double faced doors and drawers.

All exposed metal chromium plated.

Size: 60" x 25¼".

Note: *Sunnyside* cabinet arranged for free standing installation only. *Sunnyday* cabinet must be used for continuous counter installations.



Illustrating integral end piece on *Sunnyside* sinks for corner or recess installation.

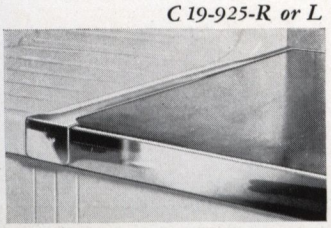
C 19-164-L—For above combination with sink having L.H. end piece.

C 19-164-R—For same with R.H. end piece.

C 19-163—For same with two end pieces.

CRANE JOINT FINISHING MOULDINGS
Patented

C 19-925-R or L

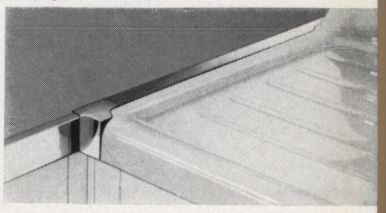


For eliminating unsanitary gaps between work tops and sinks, Chromium plated mouldings are fastened to adjoining counter top with wood screws and set with plastic cement against sink for a water proof joint. Available only for *Kitchen Queen*, *Kitchen Pride*, *Sunnyday*, *Homemaker* and *Sunnyside* sinks.

In ordering for *Sunnyside* sinks specify

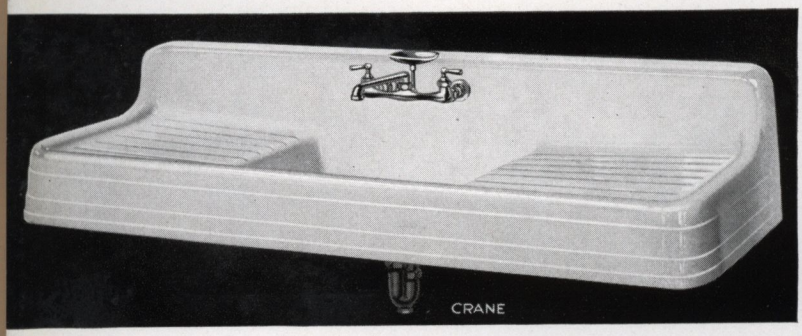
C 19-928-L or R *C 19-929-L or R*

C 19-926-R or L



Rubber Sink Mats . . . . Page 189-2

Dimensions . . . . Page 76-3

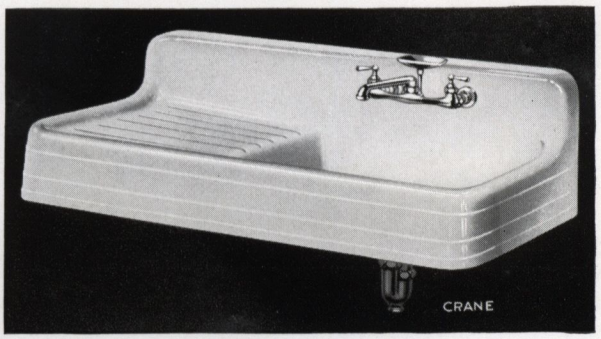


CORLAND—C 19-177
Patented

Sink, *Corland* acid resisting enamel on cast iron double drainboard apron, with concealed hangers.
Faucet, C 32-791, ½″ *Rainier* swinging spout, with *Newsleeve* trimming units, metal soap dish.
Waste, *C 33-880 *Recepto* hand operated.
Trap, 1½″, to wall.

All exposed metal chromium plated.

Sizes: 60″ x 24″ and 74″ x 24″.



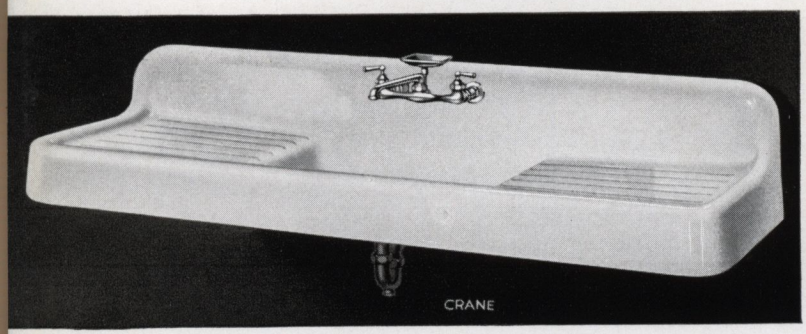
CORLAND—C 19-179-L (Left hand drainboard)
Patented **C 19-179-R** (Right hand drainboard)

Sink, *Corland* acid resisting enamel on cast iron single drainboard apron, with concealed hangers.
Faucet, C 32-791, ½″ *Rainier* swinging spout, with *Newsleeve* trimming units, metal soap dish.
Waste, *C 33-880 *Recepto* hand operated.
Trap, 1½″, to wall.

All exposed metal chromium plated.

Sizes: 42″ x 22″ and 52″ x 24″.

*C 33-882 *Speedflow* open strainer may be used.



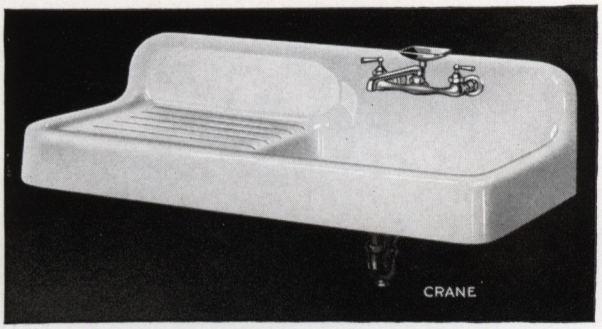
C 19-184

Sink, enamel on cast iron double drainboard apron, with concealed hangers.
Faucet, C 32-791, ½″ *Rainier* swinging spout, with *Newsleeve* trimming units, metal soap dish.
Waste, *C 33-880 *Recepto* hand operated.
Trap, 1½″, to wall.

All exposed metal chromium plated.

Sizes: 60″ x 20″ and 60″ x 22″.

Note: Available in regular or acid resisting enamel.



C 19-194-L (Left hand drainboard)
C 19-194-R (Right hand drainboard)

Sink, enamel on cast iron single drainboard apron, with concealed hangers.
Faucet, C 32-791, ½″ *Rainier* swinging spout, with *Newsleeve* trimming units, metal soap dish.
Waste, *C 33-880 *Recepto* hand operated.
Trap, 1½″, to wall.

All exposed metal chromium plated.

Sizes: 42″ x 20″, 52″ x 20″ and 52″ x 22″.

Note: Available in regular or acid resisting enamel.

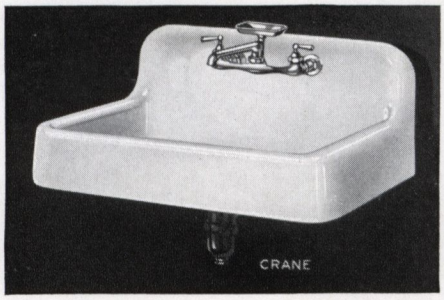
*C 33-882 *Speedflow* open strainer may be used.

Available sink legs and brackets . . . . Page 72-1

Dimensions . . . . Page 76-3

CRANE APRON AND ROLL RIM KITCHEN SINKS

Available in Regular or Acid-Resisting Enamel

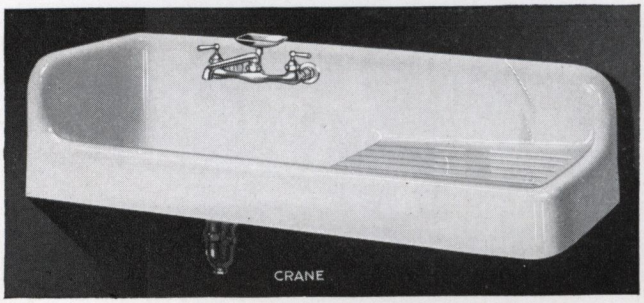


C 19-223

Sink, enamel on cast iron apron, with concealed hanger.
Faucet, C 32-791, ½" *Rainier* swinging spout, with *Newsleeve* trimming units, metal soap dish.
Waste, *C 33-880 *Recepto* hand operated.
Trap, 1½", to wall.

All exposed metal chromium plated.

Sizes: 24" x 20" and 30" x 20".



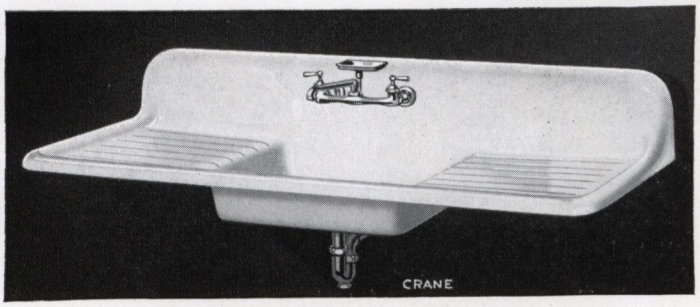
C 19-226-L (Left hand corner)
C 19-226-R (Right hand corner)

Sink, enamel on cast iron single drainboard apron, corner, with concealed hangers.
Faucet, C 32-791, ½" *Rainier* swinging spout, with *Newsleeve* trimming units, metal soap dish.
Waste, *C 33-880 *Recepto* hand operated.
Trap, 1½", to wall.

All exposed metal chromium plated.

Sizes: 42" x 20" and 52" x 20".

*C 33-882 *Speedflow* open strainer may be used.



C 19-228

Sink, enamel on cast iron double drainboard roll rim, with concealed hangers.
Faucet, C 32-751-AS, ½" *Rival* swinging spout, with metal soap dish.
Waste, *C 33-880 *Recepto* hand operated.
Trap, 1½", to wall.

All exposed metal chromium plated.

Size: 60" x 22".



C 19-228—CABINET

Baked enamel steel cabinet with double faced doors and drawers.

*C 33-882 *Speedflow* open strainer may be used.

Available sink legs and brackets . . . . Page 72-1

Dimensions . . . . Page 76-4

CRANE ROLL RIM KITCHEN SINKS

Available in Regular or Acid-Resisting Enamel

C 19-230-L (Left hand drainboard)

C 19-230-R (Right hand drainboard)

Sink, enamel on cast iron single drainboard roll rim, with concealed hangers.

Faucet, C 32-751-AS, ½" *Rival* swinging spout, with metal soap dish.

Waste, *C 33-880 *Recepto* hand operated.

Trap, 1½", to wall.

All exposed metal chromium plated.

Sizes: 42" x 20" and 52" x 20".



C 19-230-L



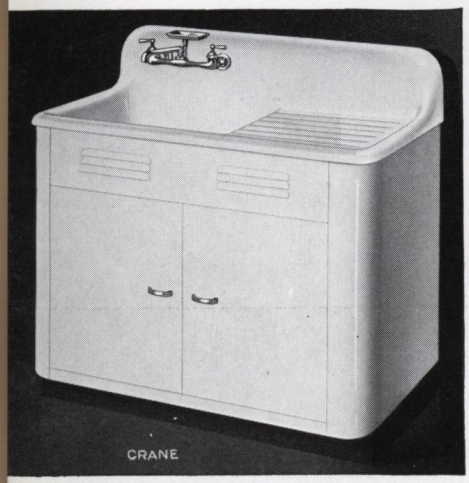
C 19-230-A CABINET

Baked enamel steel cabinet with double faced doors and two drawers.

Specify for *left* or *right* hand drainboard sink.

C 19-230-C CABINET

Baked enamel steel cabinet with double faced doors. (For 42" size sink only)



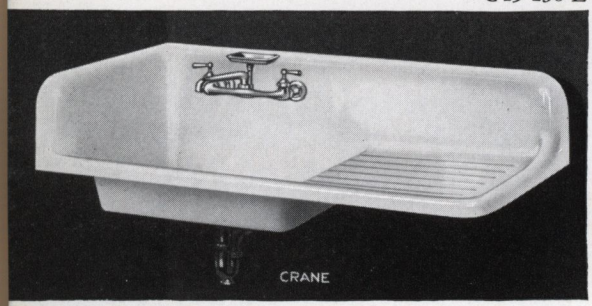


C 19-230-B CABINET

Baked enamel *Reversible* steel cabinet with double faced doors and single drawer.

*C 33-882 *Speedflow open strainer may be used.*

C 19-236-L



C 19-236-L (Left hand corner)

C 19-236-R (Right hand corner)

Sink, enamel on cast iron single drainboard roll rim, corner, with concealed hangers.

Faucet, C 32-751-AS, ½" *Rival* swinging spout, with metal soap dish.

Waste, *C 33-880 *Recepto* hand operated.

Trap, 1½", to wall.

All exposed metal chromium plated.

Sizes: 42" x 20" and 52" x 20".

C 19-330

Sink, enamel on cast iron roll rim, with back, concealed hangers.

Faucet, C 32-751-AS, ½" *Rival* swinging spout, with metal soap dish.

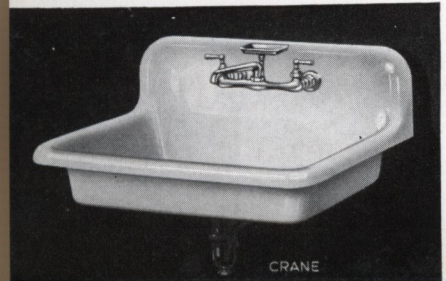
Waste, *C 33-880 *Recepto* hand operated.

Trap, 1½", to wall.

All exposed metal chromium plated.

Sizes: 24" x 16", 24" x 18", 30" x 18", 20" x 20", 24" x 20", 30" x 20", 36" x 20", 36" x 22", 42" x 22".

C 19-330



Sink legs and brackets . . . . Page 72-1

Dimensions . . . . Page 76-4

CRANE FLAT RIM KITCHEN SINKS

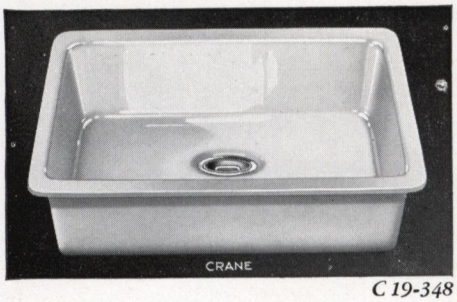
Available in Regular or Acid-Resisting Enamel



C 19-340

C 19-340

Sink, enamel on cast iron flat rim, with back, concealed hangers.
Faucet, C 32-751-AS, ½″ *Rival* swinging spout, with metal soap dish.
Waste, *C 33-880 *Recepto* hand operated.
Trap, 1½″, to wall.
All exposed metal chromium plated.
Sizes: 30″ x 18″ and 30″ x 20″.



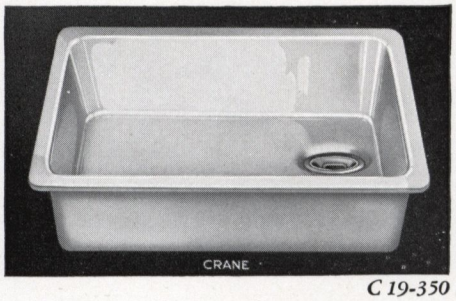
C 19-348

C 19-348

Sink, enamel on cast iron flat rim, with center outlet.
Waste, *C 33-880 *Recepto* chromium plated, hand operated.
Sizes: 12″ x 12″, 24″ x 20″ and 30″ x 20″ (6″ deep).

C 19-347

Same except 8″ deep sink, 30″ x 20″ size only.



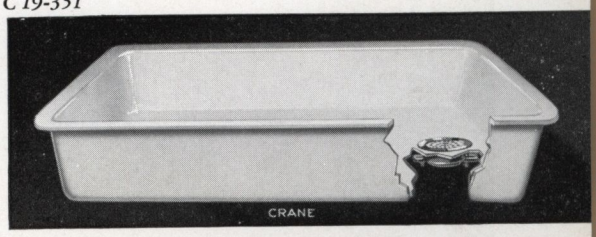
C 19-350

C 19-350

Sink, enamel on cast iron flat rim, with end outlet.
Waste, *C 33-880 *Recepto* chromium plated, hand operated.
Sizes: 18″ x 12″, 20″ x 14″, 20″ x 16″, 24″ x 16″, 24″ x 18″, 30″ x 18″, 36″ x 18″, 24″ x 20″, 30″ x 20″, 36″ x 20″ (6″ deep).

*C 33-882 *Speedflow* open strainer may be used.

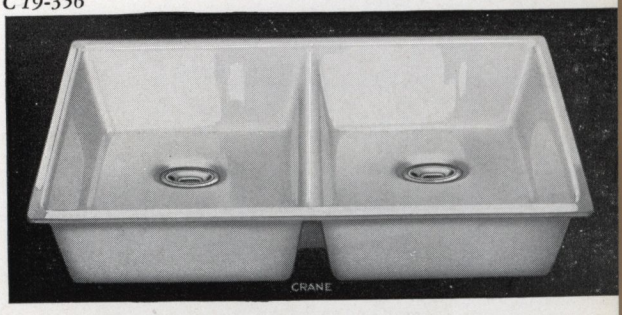
C 19-351



C 19-351

Sink, enamel on cast iron flat rim, with horn end outlet for lead pipe.
Waste, C 33-844 brass open strainer, with collar and bolts.
Sizes: 24″ x 16″ and 30″ x 18″ (6″ deep).

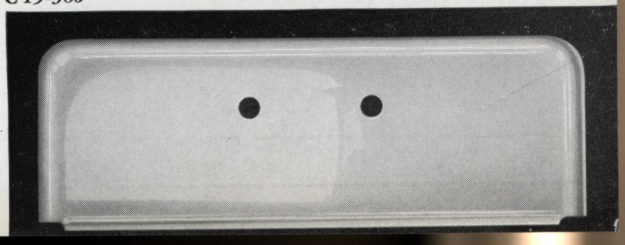
C 19-356



C 19-356

Sink, enamel on cast iron two-compartment flat rim.
Wastes, C 33-880 *Recepto* chromium plated hand operated.
Sizes: 32″ x 20″ and 42″ x 22″ (8″ deep).
Note: Available with C 33-882 *Speedflow* strainers.

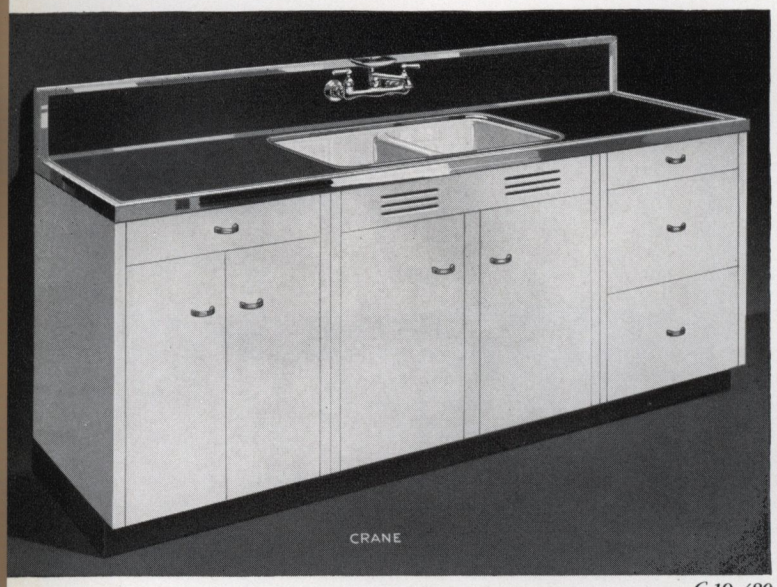
C 19-360



C 19-360

Enamel on cast iron sink backs, 12″ high.
Lengths: 24″, 30″ and 36″.

Sink legs and brackets . . . . Page 72-1 *Dimensions . . . . Page 76-4*



C 19-480

C 19-480

Sink top, black linoleum, with back and stainless steel edging.

Sink, C 19-356 enamel on cast iron two compartment.

Faucet, C 32-791, ½″ *Rainier* chromium plated swinging spout, with *Newsleeve* trimming units, metal soap dish.

Wastes, C 33-880 *Recepto* chromium plated hand operated.

Trap, 1½″ emery finish "P".

Cabinet, baked enamel steel, with double faced doors and drawers, chromium plated hardware.

Sizes: 72″ x 25¼″ and 84″ x 25¼″.

Note: In addition to the standardized sizes shown above, similar cabinet sinks can be furnished in sizes from 36″ minimum up to full room width, and for continuous counter U shaped or L shaped installation. Also available with C 19-348 single compartment basins and with various standard color linoleums in addition to black.



C 19-494

C 19-494

Sink, 18-8 chromium nickel alloy steel double drainboard, with back.

Faucet, C 32-791, ½″ *Rainier* chromium plated swinging spout, with *Newsleeve* trimming units, metal soap dish.

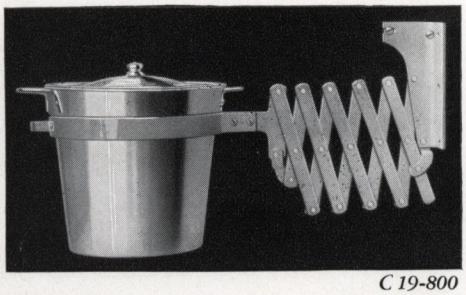
Waste, C 33-880 *Recepto* chromium plated hand operated.

Trap, 1½″ emery finish "P".

Cabinet, baked enamel steel, with double faced doors and drawers, chromium plated hardware.

Size: 60″ x 25″.

Note: Similar cabinet sinks can be furnished in sizes from 24″ minimum up to full room width, and for continuous counter U shaped or L shaped installation. Also available with two sink basins. The sink top can be furnished in Nickel Silver or Monel Metal at no additional cost.



C 19-800

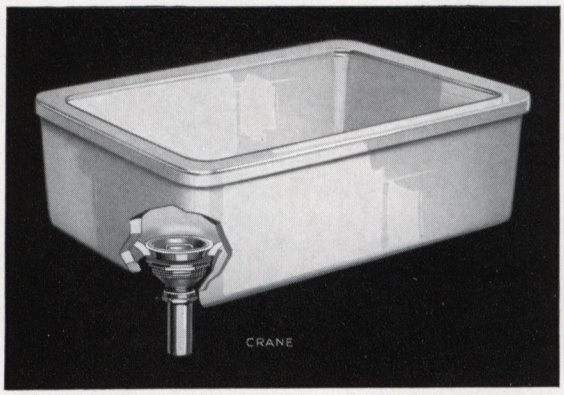
KITCHEN KATCH-ALL—C 19-800

Made of heavy gauge aluminum with removable inner strainer, cover and carrying handles. Set in steel collar attached to a steel collapsible arm with a bracket specially adapted to fit lugs on Crane *Corland* kitchen sinks, or for attaching to wall when used with other sinks. Bolts, nuts and screws included.

Natural Polished Aluminum or Enameled any Crane plain color.

(For Colors, See Color Chart in Front of Catalogue.)

Further details and dimensions on application.



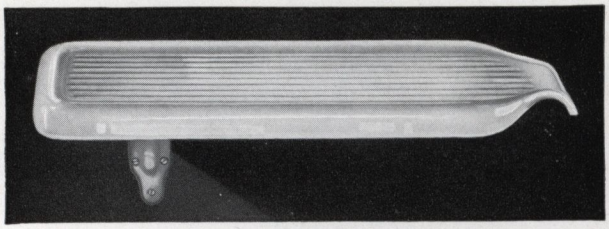
C 19-565

Sink, vitreous china end outlet flat rim, with extended ledge for tiling in.

Waste, *C 33-880 *Recepto* chromium plated hand operated, with 1½″ tailpiece.

Size: 20″ x 14″ x 8″ deep.
30″ x 20″ x 8″ deep.

*C 33-882 *Speedflow* open strainer may be used.

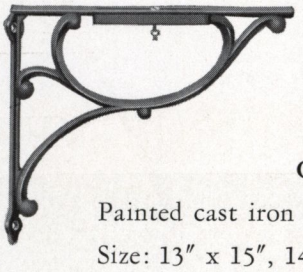


C 19-630

*Enameled interchangeable drainboard for roll rim sinks with painted iron bracket.

Sizes (Length x Width): 18″ x 18″, 18″ x 20″, 20″ x 16″, 24″ x 18″, 24″ x 20″, 24″ x 22″.

*Available in regular or acid-resisting enamel.



C 19-700

Painted cast iron sink bracket.

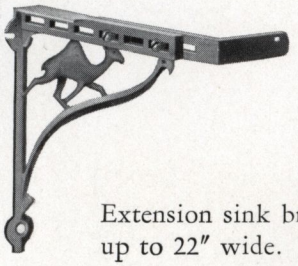
Size: 13″ x 15″, 14″ x 16″ and 16″ x 18″.



C 19-660

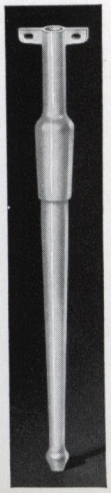
Adjustable sink frame, black or galvanized.

Sizes: 24″ for 24 x 16 and 24 x 18 sinks.
30″ for 30 x 18 and 30 x 20 sinks.
36″ for 36 x 18 and 36 x 20 sinks.



C 19-702

Extension sink bracket, adjustable for sinks up to 22″ wide.



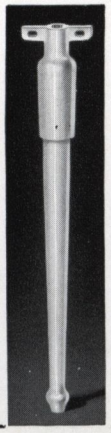
C 19-710

Enamel on cast iron *adjustable round sink leg. For use under drainboard of roll rim sinks.

C 19-712

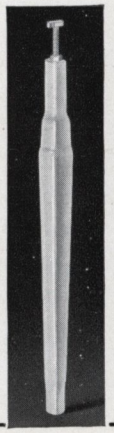
Same for use under basin of roll rim sinks.

*To set sink 30 to 36″, floor to rim.



C 19-716

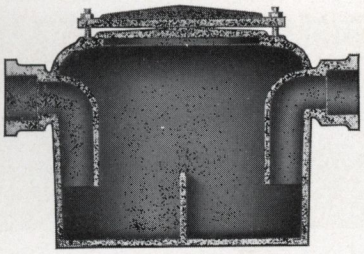
Enamel on cast iron adjustable square sink leg. For use with and adjustable to set *Corland* sinks and combination sink and laundry tub 34 to 38″, floor to rim; apron sinks and two compartment laundry tubs, 32 to 36″.



Sink Brass . . . . . Page 94-1

CRANE GREASE TRAPS AND SCULLERY SINKS

CAST IRON GREASE TRAPS

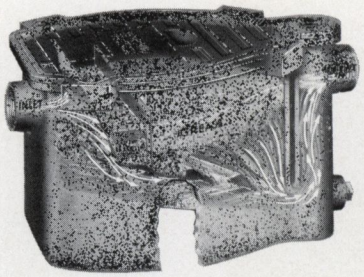


C 19-850

Cast iron grease trap with bolted cover.

Size Inches	Inlet & Outlet		Grease Cacapity Lbs.
	Hub	Tap	
12 x 8 x 9 deep	2″	1½ or 2″	8
19 x 11 x 10 deep	2″	1½ or 2″	25

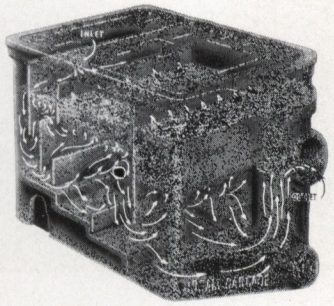
Furnished Painted, enameled inside, or enameled inside and outside.



C 19-858

Josam-Marsh cast iron non-siphoning grease interceptor, painted white enamel inside and outside; brass cleanout. Grease chamber entirely exposed when cover is raised.

Size	Flow Gallons Per Hour	Grease Capacity Lbs.	Female I.P.S. Inlet & Outlet Inches
A-0	250	15	1½ or 2
A-1	500	25	2
A-1B	725	35	2
A-2	950	50	2 or 3
A-3	1500	100	3 or 4
A-5	2500	150	4 or 5

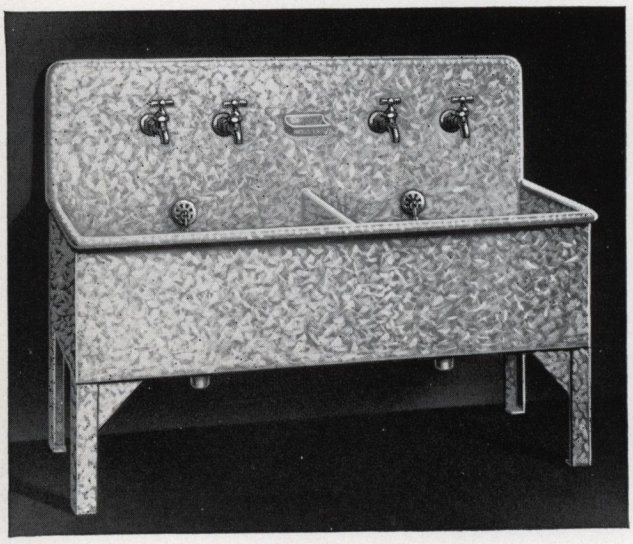


C 19-861

Josam Cascade cast iron grease interceptor, painted white enamel inside and outside, with 1½″ or 2″ female inlet and outlet. Grease chamber entirely exposed when cover is raised.

Size: 15″ x 12″ x 10″ high.

SCULLERY SINKS



C 19-880

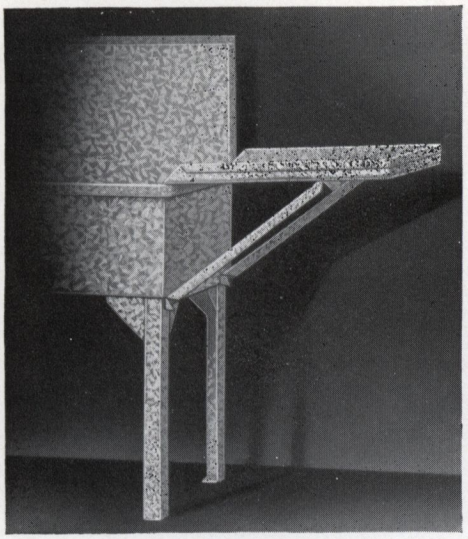
Sink, galvanized sheet steel roll rim, 2-compartment scullery, with back, legs and galvanized soap dish.

Faucets, C 31-242-N, ¾″ *Improved Telsa*.

Wastes, C 19-880, connected with overflow, with chains, rubber stoppers and 1½″ O.D. tailpieces.

Exposed brass chromium plated.

Sizes: 30″ x 24″, 36″ x 24″, 42″ x 24″, 48″ x 24″, 54″ x 24″ and 60″ x 24″.



C 19-890

Galvanized sheet steel drainboard with galvanized steel braces.

Size: 24″ x 24″.

Note: Special sizes to fit any scullery sink made to order.

Dimensions . . . . . Page 76-5

CRANE SINK & TUB COMBINATIONS

Available in regular or acid resisting enamel.



C 21-000-L

ASHFORD **C 21-000-L** (Left hand tub)
C 21-000-R (Right hand tub)

Combination, enamel on cast iron sink and laundry tub, with 4″ back with "comfort-angle" supply fixture panel, concealed hangers.

Fixture, C 32-835, ½″ swinging spout, with *Newsleeve* trimming units.

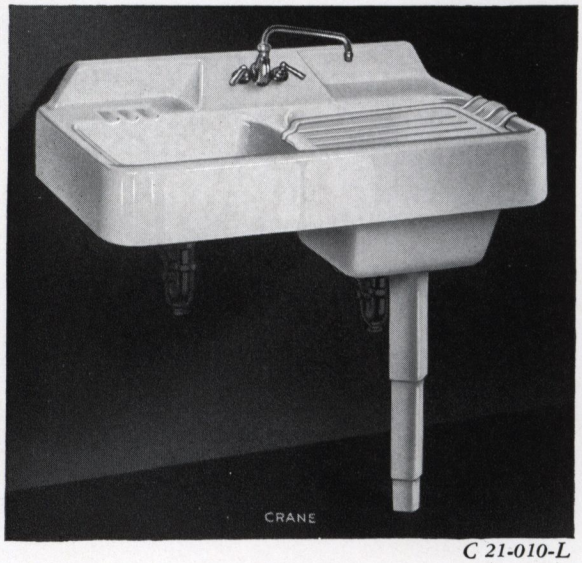
Wastes, *C 33-880 *Recepto* hand operated, in basin.
C 33-805, plug with rubber stopper, in tub.

Cabinet, C 21-000 baked enamel steel, with double faced doors.

Drainboard, acid resisting porcelain enameled steel.

Size: 42″ x 25¼″.

Note: Available with single leg (like C 21-010) less cabinet, when mentioned with catalog number on order.



C 21-010-L

BELMONT **C 21-010-L** (Left hand tub)
C 21-010-R (Right hand tub)

Combination, enamel on cast iron apron sink and laundry tub, with 4″ back with "comfort-angle" supply fixture panel, angle pattern leg, concealed hangers.

Fixture, Wastes and Drainboard, same as for C 21-000 above.

Traps, (not included)

Size: 42″ x 25¼″.

C 21-012-L



**Speedflow* open strainer may be used.

BELMONT **C 21-012-L** (Left hand tub)
C 21-012-R (Right hand tub)

Combination, enamel on cast iron apron sink and laundry tub with 4″ back with "comfort-angle" supply fixture panel, square legs and concealed hangers.

Fixture, Wastes and Drainboard, same as for C 21-000 above.

Traps, (not included).

Size: 42″ x 25¼″.

C21-110-L



C 21-110-L (Left hand tub)
C 21-110-R (Right hand tub)

Combination, enamel on cast iron sink and laundry tub, with square legs and concealed hangers.

Faucet, C 32-740-SN, ½″ *Improved Agilis* swinging spout with *Newsleeve* trimming units, metal soap dish.

Wastes, *C 33-880 *Recepto* hand operated, in sink.
C 33-805 plug with rubber stopper, in tub.

Traps, (not included).

Drainboard, chromium plated or acid-resisting enameled steel.

Sizes: 36″ x 22″, 42″ x 22″and 50″ x 22″.

Note: Available with single leg (like C 21-010).

**Speedflow* open strainer may be used.

All exposed metal chromium plated

Dimensions . . . . . Page 76-5

CRANE LAUNDRY TUBS

C 21-129
Patent Pending

Tub, *Everbrite* porcelain (all clay) two compartment laundry, with shelf, two soap depressions, integral wash-board in left compartment and integral overflow.

Support, C 21-306 painted steel adjustable frame.

Faucet, C 31-742, ½″ rough nickel plated *Agilis* swinging spout, with hose end.

Waste, painted cast iron twin, with rough nickel plated plugs and rubber stoppers. (For connection to lead pipe or funnel tailpiece.)

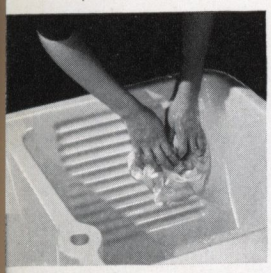
Size: 40″ x 27″.

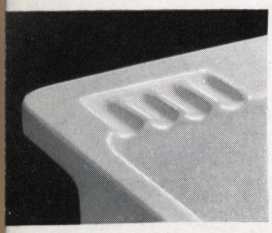
C 21-128

Same except with porcelain legs and painted brackets (like C 21-143).



C 21-129



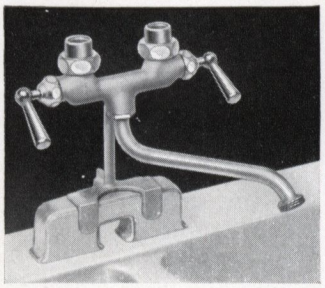


Everbrite Features

An integral wash-board is moulded into the front of left hand compartment. No metal to work loose and tear clothes.

A large shelf for washing powders, bluing and other wash day necessities helps make laundering more pleasant.

Self draining soap depressions keep the soap where it is wanted. They are large enough to hold a large bar of laundry soap.



For supplies from ceiling specify C 31-746-S faucet, with faucet anchor which attaches to tub through cock holes.

Above features on shelf model tub only.



C 21-143

C 21-143
Patent Pending

Tub, *Everbrite* porcelain (all clay) two compartment laundry, with integral overflow, porcelain legs and painted brackets.

Faucet, C 32-753-A, ½″ chromium plated *Rival* swinging spout, with hose end, metal soap dish.

Waste, painted cast iron twin, with rough nickel plated plugs and rubber stoppers. (For connection to lead pipe or funnel tailpiece).

Sizes: 40″ x 22″ and 46″ x 24″.

Everbrite two-compartment laundry tubs can be furnished with C 21-307 supporting frame shown to the right, when specified.



Tub faucets . . . . Page 86-1

Dimensions . . . . Page 76-5

CRANE LAUNDRY TUBS



C 21-147

C 21-147
Patent Pending

Tub, *Everbrite* porcelain (all clay) two compartment laundry, with integral overflow.

Support, C 21-306 painted steel adjustable frame.

Faucet, C 31-746-P, ½″ rough nickel plated *Agilis* swinging spout.

Waste, painted cast iron twin, with rough nickel plated plugs and rubber stoppers. (For connection to lead pipe or funnel tailpiece.)

Sizes: 40″ x 22″ and 46″ x 24″.

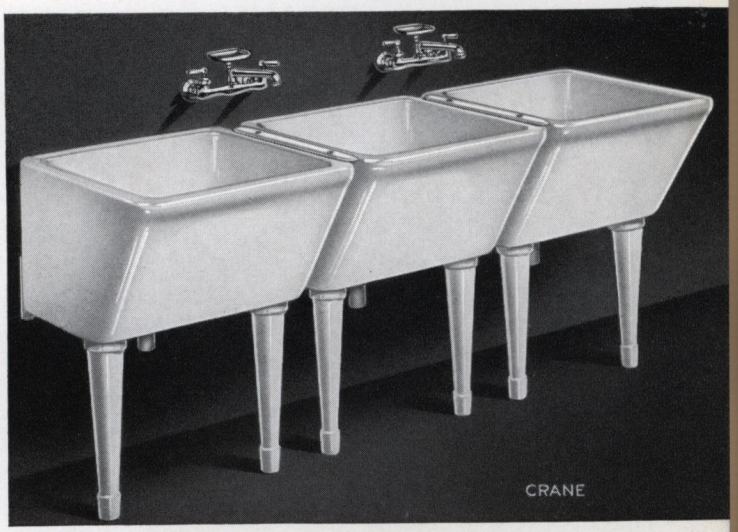
C 21-176
Patent Pending

Tubs, *Everbrite* porcelain (all clay) laundry, with C 21-183 filler strips, porcelain legs and painted wall brackets.

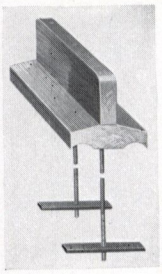
Faucets, C 32-753-A, ½″ chromium plated *Rival* swinging spout, with hose end, metal soap dish.

Wastes, nickel plated plug, with rubber stopper.

Single tub size: 24″ x 24″.



C 21-176



C 21-185

Oil finish, ash wood center wringer base for porcelain (all clay) laundry tubs.

C 21-179
Patent Pending

Tubs, *Everbrite* porcelain (all clay) laundry, with C 21-183 filler strips.

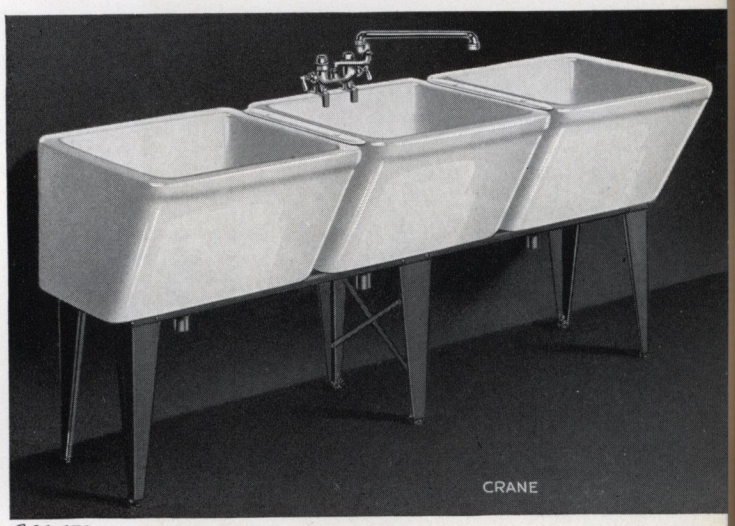
*Support, C 21-306 painted adjustable frame.

Faucet, ½″ rough nickel plated swinging spout.

Wastes, nickel plated plug, with rubber stopper.

Single tub size: 24″ x 24″.

*Single tub size also available.



C 21-179



C 21-183 extruded aluminum filler strip to cover space between *Everbrite* tubs when installed in batteries. Water splashed between tubs is drained back into the tubs instead of splashing on the floor. All corners are rounded.

Tub faucets . . . . Page 86-1

Dimensions . . . . Page 76-5

CRANE LAUNDRY TUBS

C 21-191

Tub, enamel on cast iron two-compartment laundry, with back, chainstays, hardwood wringer base, painted adjustable legs and concealed hangers.

Faucet, C 32-751-ASL, ½″ *Rival* swinging spout, with metal soap dish.

Wastes, C 33-805 plug, with rubber stopper, 1½″ O.D. tailpiece; No. 10 bead chains.

All exposed metal chromium plated.

Size: 52″ x 26″.



C 21-191

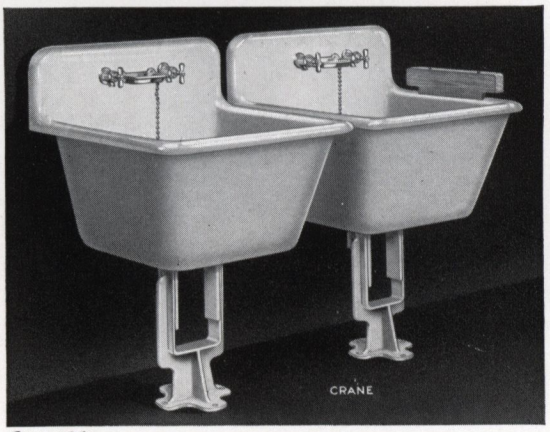
C 21-221

Tubs, enameled inside, painted outside, cast iron roll rim laundry, with back, chromium plated soap dishes, hardwood wringer base, painted iron standards (adjustable 31 to 34″ rim to floor) and concealed hangers.

Faucets, C 31-730-N, ½″ rough chromium plated *Improved Telsa*, with solid female flange.

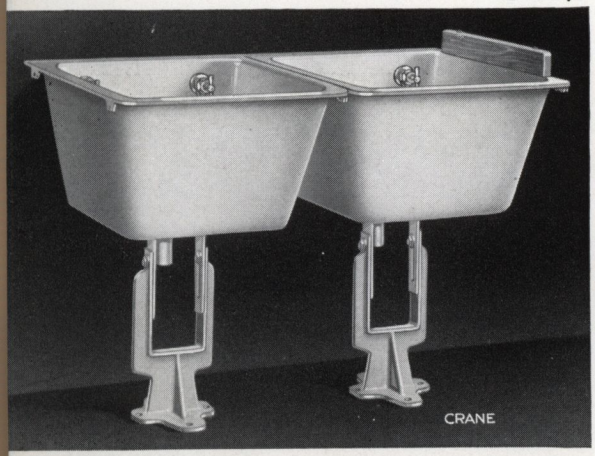
Wastes, C 33-805 chromium plated plug, with rubber stopper, 1½″ O.D. tailpiece; No. 10 bead chains.

Single tub size: 27″ x 26″.



C 21-221

C 21-242



C 21-242

Tubs, enameled inside, painted outside, cast iron flat rim laundry, with hardwood wringer base, painted iron standards (adjustable 31 to 34″ rim to floor).

Faucets, C 31-730-N, ½″ rough chromium plated *Improved Telsa*, with solid female flange.

Wastes, C 33-805 chromium plated plug, with rubber stopper, 1½″ O.D. tailpiece.

Single tub Sizes: 24″ x 20″, 24″ x 22″, and 25½″ x 25½″

C 21-250

Same except with concealed hangers and wall braces (less standards).

C 21-253



C 21-253

Tubs, enameled inside, painted outside, cast iron flat rim laundry, with hardwood wringer base.

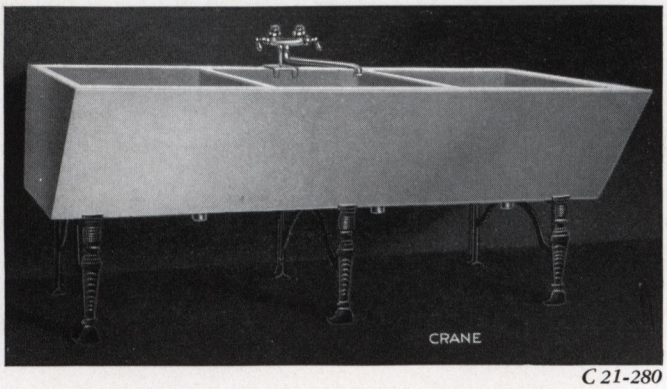
Support, C 21-253 steel frame.

Faucet, C 31746-E, ½″ rough nickel plated *Agilis* swinging spout, with hose end.

Wastes, C 33-805 nickel plated plug, with rubber stoppers, 1½″ O.D. tailpiece.

Single tub Sizes: 24″ x 20″, 24″ x 22″ and 25½″ x 25½″.

Tub faucets . . . . . Page 86-1 *Dimensions . . . . Pages 76-5 and 76-6*



C 21-280

C 21-280

Tub, Alberene soapstone laundry, with painted iron legs.

Faucet, *C 31-748-S, ½″ rough nickel plated *Agilis* swinging spout, with hose end.

Wastes, brass plug, with rubber stopper, 1½″ O.D. tailpiece.

Sizes: 2-part (2 legs)—42″ x 24″ and 48″ x 24″.
3-part (3 legs)—72″ x 24″.

Note: Available with 9″ integral back.
*C 31-746-S for 2-part tubs.



C 21-293

C 21-293

Tub, *Shelfon* cement composition laundry, with self-draining shelf, two soap depressions, built-in copper washboard, metal rims, chain holders.

Support, C 21-298-L steel frame, with patented levelers.

Faucet, C 31-742, ½″ rough nickel plated *Agilis* swinging spout, with hose end.

Waste, cast-in twin drain, with rubber stoppers, 1½″ O.D. tailpiece.

Sizes: 2-part—48″ x 28″, 3-part 72″ x 28″.

Note: Stainless steel rim and washboard available at extra cost.

C 21-294

Tub, cement composition laundry.

Support, C 21-298 steel frame.

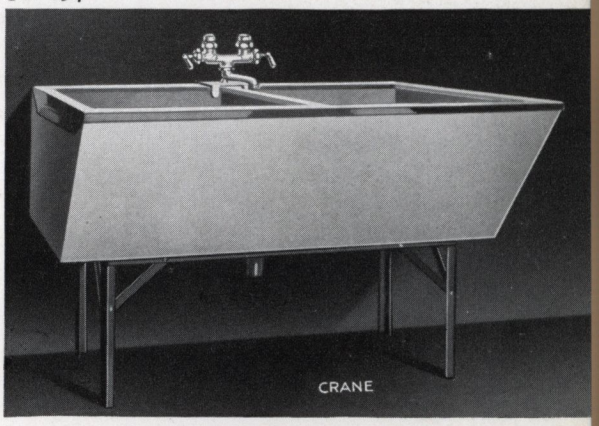
Faucet, C 31-746-S, ½″ rough nickel plated *Agilis* swinging spout, with hose end.

Waste, cast-in twin drain, with rubber stoppers, 1½″ O.D. tailpiece.

Sizes: 2-part—48 ″x 24″, 54″ x 24″ and 60″ x 24″.
3-part—72″ x 24″.

Note: Available with 6″ integral back.

C 21-294

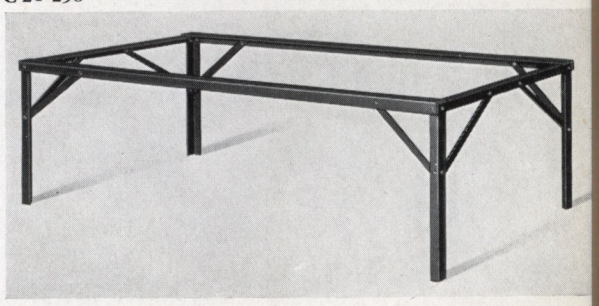


C 21-298

Folding steel laundry tub supporting frame.

Note: When ordering, specify catalog number and size of fixture for which required.

C 21-298



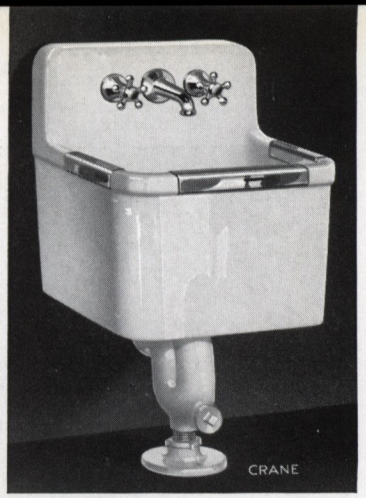
C 21-298-L

Same except with patented levelers for quickly leveling tub on any uneven floor.

Tub faucets . . . . . Page 86-1

Dimensions . . . . Page 76-6

CRANE SERVICE SINKS



C 21-321-D

C 21-321-D

Sink, vitreous china service, with back.

Supply, C 32-860, ½″ fixture, with rigid spout.

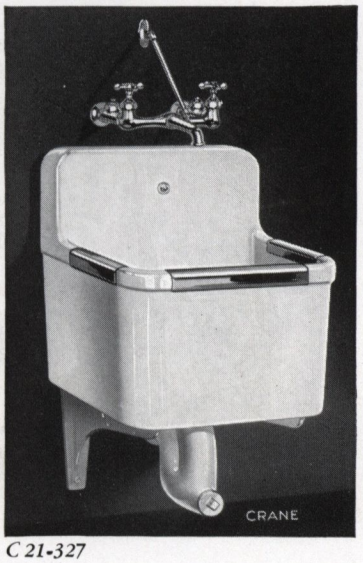
Trap Standard, C 21-420-A, 3″ (or 2″) enameled inside adjustable "P", with brass strainer.

Rim guards, C 21-494 brass, for front and sides.

Sizes: 20″ x 18″ and 22″ x 20″.

C 21-321

Same except with supply fixture like shown for C 21-327.



C 21-327

C 21-327

Sink, vitreous china service, with back, supporting screw, painted semi-concealed brackets.

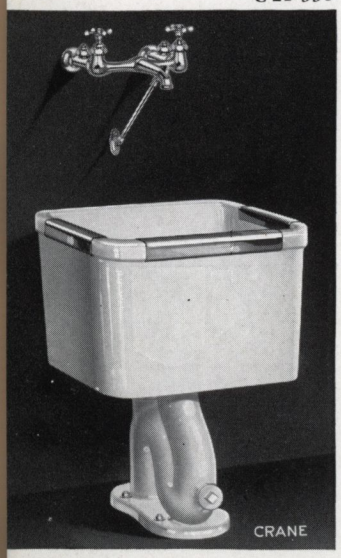
Supply, C 32-898-N, ½″ *Improved Telsa* fixture, with integral stops, *Newsleeve* trimming units, pail hook and brace.

Trap, C 21-432-A, 3″ (or 2″) enameled inside "P", with brass strainer.

Rim guards, C 21-494 brass, for front and sides.

Sizes: 20″ x 18″ and 22″ x 20″.

C 21-338



C 21-338

Sink, vitreous china service.

Supply, C 32-895-N, ½″ *Improved Telsa* fixture, with integral stops, *Newsleeve* trimming units, pail hook and brace.

Trap standard, C 21-427-A, 3″ enameled inside adjustable "S", with brass strainer.

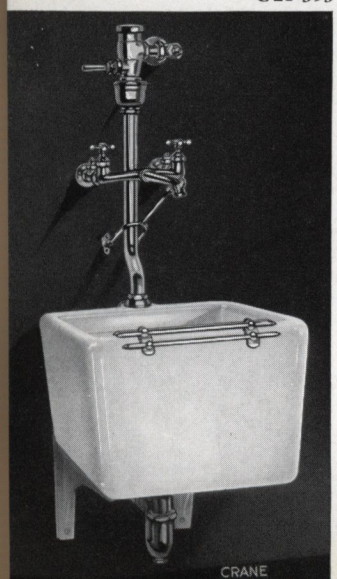
Rim guards, C 21-494 brass, for front and sides.

Sizes: 20″ x 16″ and 22″ x 18″.

C 21-344

Same except with brackets and trap like shown for C 21-327.

C 21-353



C 21-353

Sink, porcelain (all clay) flushing rim service, on painted semi-concealed brackets.

Supply, C 32-896-N, ½″ *Improved Telsa* fixture, with integral stops, *Newsleeve* trimming units, pail hook and brace.

Valve, C 12-901-W *Delta*, with 1″ angle stop, *Vigilant* vacuum breaker.

*Waste, cast brass open strainer, and C 33-976, 2″ cast brass "P" trap with nipple and escutcheon.

Rim guard, C 21-500 brass 3-bar spring clamp.

Size: 24″ x 20″.

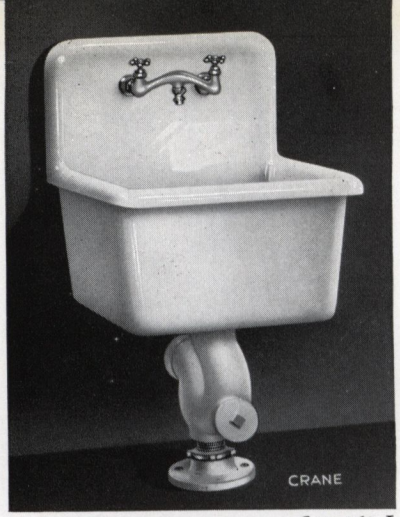
*Available on order with other trap and trap standards shown on this page.

Note: This sink also available in heavy vitreous china.

All exposed metal chromium plated.

Dimensions . . . . Page 76-6

CRANE SERVICE SINKS



C 21-360-L

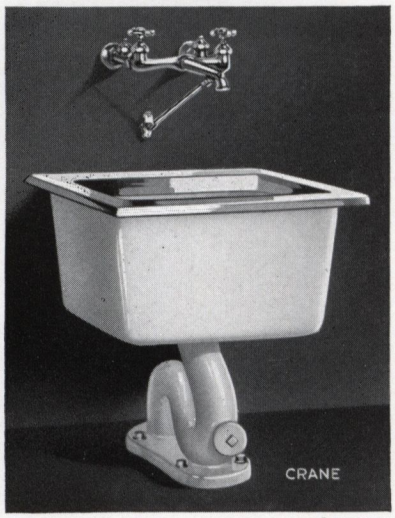
C 21-360-L

Sink, enamel inside, painted outside, cast iron roll rim service, with back, concealed hanger.

Faucet, C 32-780, ½″ *Telsa*, rough double.

Trap standard C 21-420-A, 3″ (or 2″) enameled inside adjustable "P", with brass strainer.

Sizes: 20″ x 16″, 22″ x 18″ and 24″ x 20″.



C 21-382

C 21-382

Sink, enameled inside, painted outside, cast iron flat rim service.

Supply, C 32-895-N, ½″ *Improved Telsa* fixture, with integral stops, *Newsleeve* trimming units, pail hook and brace.

Trap standard, C21-427-A, 3″ enameled inside "S", with brass strainer.

Rim guard, C 21-490 cast brass, on four sides.

Sizes: 22″ x 18″ and 24″ x 20″.

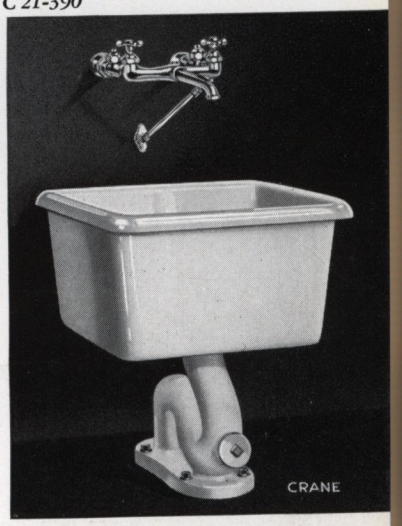
C 21-406

Same as above less rim guard.

Sizes: 20″ x 16″, 22″ x 18″ and 24″ x 20″.

Sinks on this page available in acid-resisting or regular enamel.

C 21-390



C 21-390

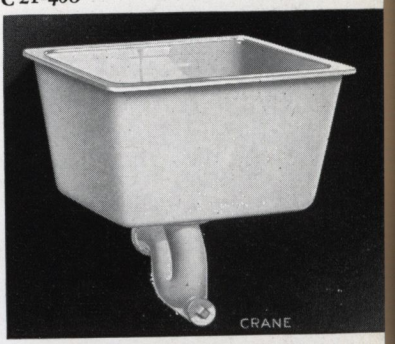
Sink, enameled inside, painted outside, cast iron roll rim service.

Supply, C 32-895-N, ½″ *Improved Telsa* fixture, with integral stops, *Newsleeve* trimming units, pail hook and brace.

Trap standard, C21-427-A, 3″ enameled inside "S", with brass strainer.

Sizes: 22″ x 18″ and 24″ x 20″.

C 21-408



C 21-408

Sink, enameled inside, painted outside, cast iron flat rim service, with concealed hanger and wall brace.

Trap, C 21-432-A, 3″ (or 2″) enameled inside "P", with brass strainer.

Sizes: 20″ x 16″, 22″ x 18″ and 24″ x 20″.

C 21-412



C 21-412

Sink, enameled inside, painted outside, cast iron flat rim service, with concealed hanger and wall brace.

Strainer, brass waste, with 1½″ O.D. tailpiece.

Sizes: 16″ x 16″, 20″ x 16″, 22″ x 18″ and 24″ x 20″.

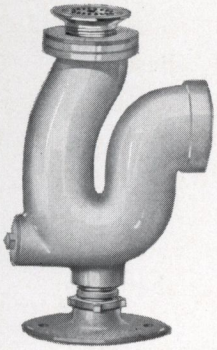
All exposed metal chromium plated.

Dimensions . . . . Page 76-6

CRANE TRAP STANDARDS AND RIM GUARDS

CAST-IRON TRAP STANDARDS FOR SERVICE SINKS

Available in acid resisting or regular enamel.



C 21-420-A

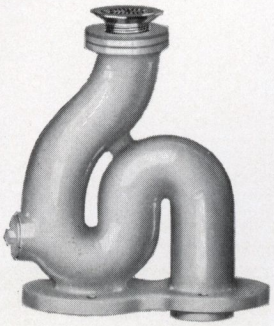
Enameled inside, painted outside, adjustable "P" trap standard with 2 or 3 inch I.P. outlet, brass waste strainer, gaskets and cleanout plug.

C 21-421-A

Enameled inside, painted outside "S" trap standard with spigot outlet for 3-inch soil pipe, brass waste strainer, gaskets and cleanout plug.

Note: Available with 2″ O.D. brass vent to wall with escutcheon.





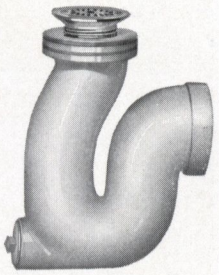
C 21-427-A

Enameled inside, painted outside, "S" trap standard for 3-inch lead or iron pipe, with brass waste strainer, gaskets and cleanout plug.

Note: Available with 2″ O.D. brass vent to wall with escutcheon.

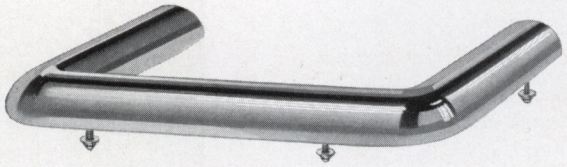
C 21-432-A

Enameled inside, painted outside, "P" trap with 2 or 3-inch I.P. outlet, brass waste strainer, gaskets and cleanout plug.



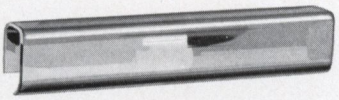
Porcelain enameled cast-iron trap standards can also be furnished enameled inside and outside.

RIM GUARDS FOR SERVICE SINKS



C 21-491

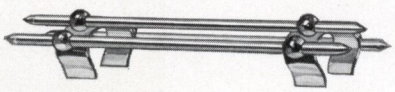
Cast brass rim guard with screws and washers for 24″ x 20″ size only roll-rim enameled service sink.



C 21-494

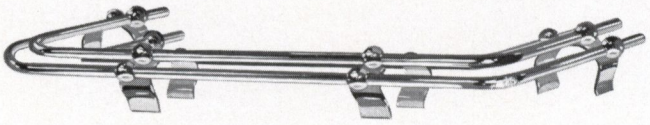
Brass sheet metal rim guard for vitreous china service sinks.

For sinks—Sizes:	20″ x 16″	22″ x 18″
	20″ x 18″	22″ x 20″
Length—For front	12″	14″
For sides	8″	10″



C 21-500

3-bar spring clamp brass rim guard for front rim of service sinks.



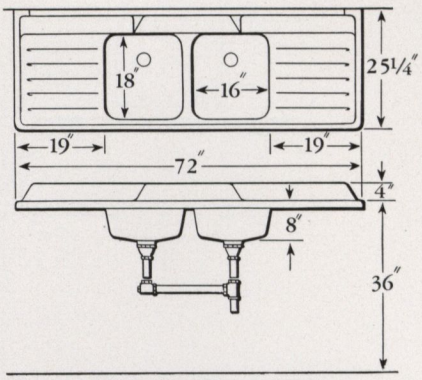
C 21-504

3-bar spring clamp brass rim guard for front and side rims of service sinks.

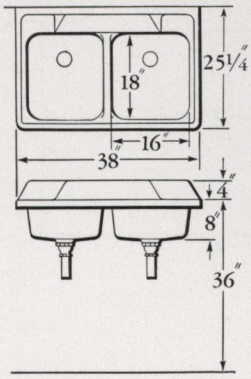
When ordering rim guards specify plate number and size of service sink with which guards are to be used.

All exposed metal chromium plated.

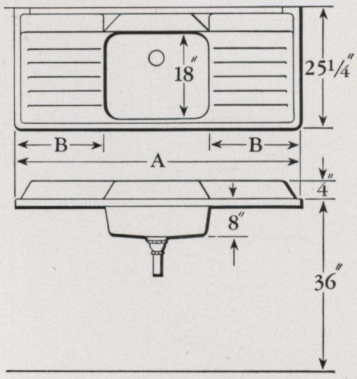
CRANE KITCHEN SINK DIMENSIONS



KITCHEN QUEEN—C 19-070

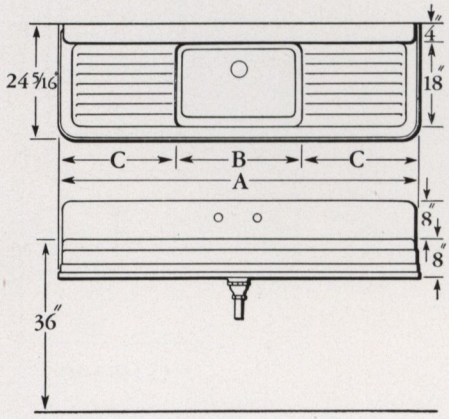


KITCHEN PRIDE—C 19-083



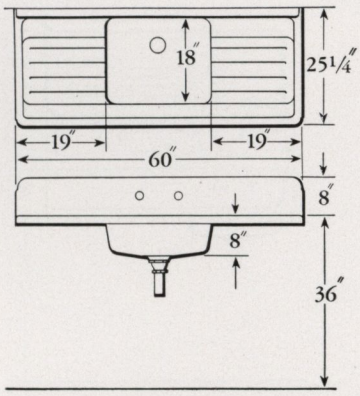
SUNNYDAY—C 19-150

A—	54″	60″
B—	17″	19″

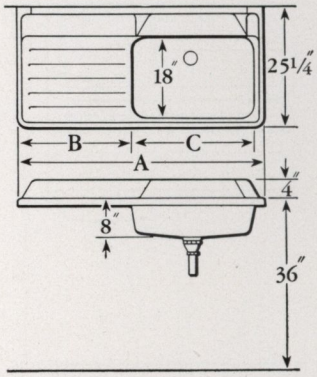


CORLAND—C 19-177

A	B	C
60 5/8″	22″	19 5/16″
74 5/8″	26″	24 5/16″

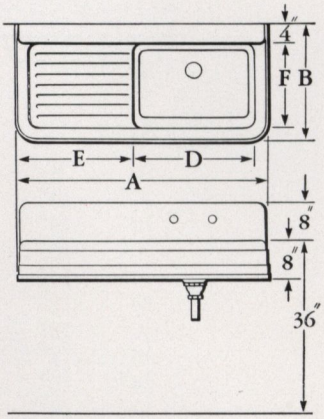


SUNNYSIDE—C 19-162



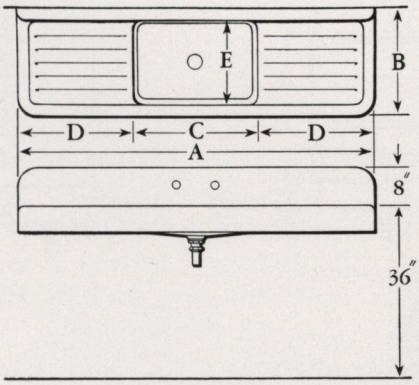
HOMEMAKER—C 19-158-L

A	B	C
42″	20″	20″
52″	24″	26″



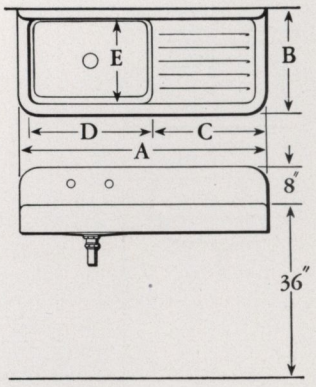
CORLAND—C 19-179-L

A	B	D	E	F
42 5/8″	22 5/16″	19 9/16″	20 5/16″	16″
52 5/8″	24 5/16″	25 9/16″	24 5/16″	18″



C 19-184

A	B	C	D	E
60 3/8″	20 1/8″	19 5/8″	20 3/8″	15 5/8″
60 1/2″	22 1/2″	22″	19 1/4″	18″
74 1/2″	20 1/2″	26″	24 1/4″	16″
74 1/2″	22 1/2″	26″	24 1/4″	18″

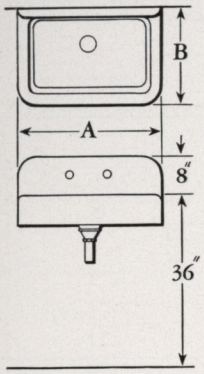


C 19-194-R

A	B	C	D	E
42 1/2″	20 1/4″	20 1/4″	20″	16″
52 1/2″	20 1/4″	24 1/4″	26″	16″
52 1/2″	22 1/4″	24 1/4″	26″	18″

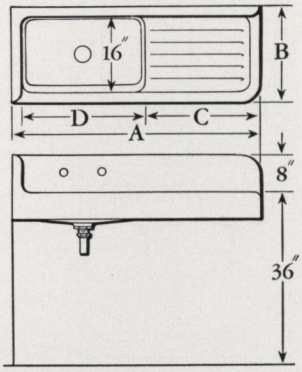
Dimensions given to show space requirements only—subject to a small variation

CRANE KITCHEN SINK DIMENSIONS



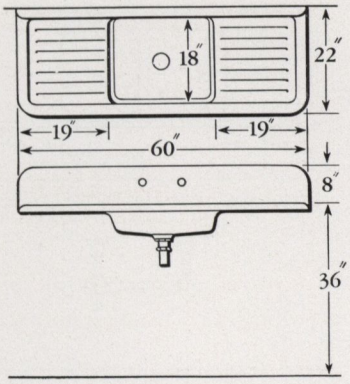
C 19-223

A	B
24½″	20¼″
30½″	20¼″

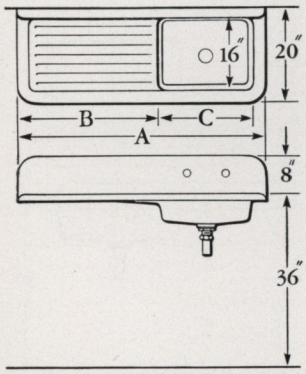


C 19-226-L

A	B	C	D
42¼″	20¼″	20¼″	20″
52¼″	20¼″	24¼″	26″

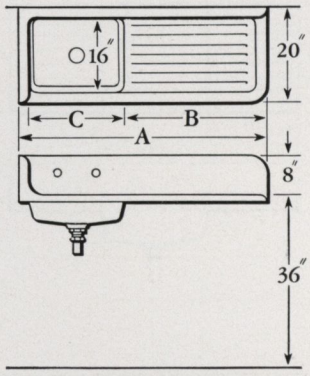


C 19-228



C 19-230-L

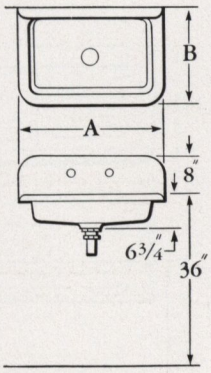
A	B	C
42″	20″	20″
52″	24″	26″



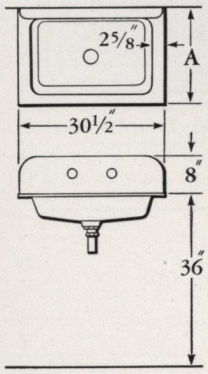
C 19-236-L

A	B	C
42″	20″	20″
52″	24″	26″

A	B
24″	16″
24″	18″
30″	18″
20″	19½″
24″	20″
30″	20″
36″	20″
36″	22″
42″	21¾″

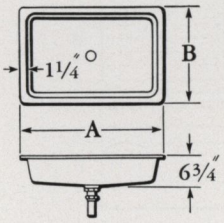


C 19-330



C 19-340

A
20″
18″



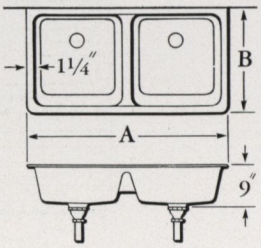
C 19-348

A	B
12″	12″
24″	20″
30″	20″

C 19-347

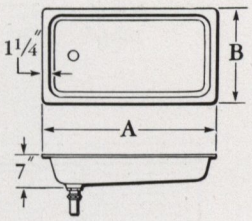
A	B
30″	20″

6¾″ dimension becomes 9″.



C 19-356

A	B
32″	20″
42″	22″



C 19-350

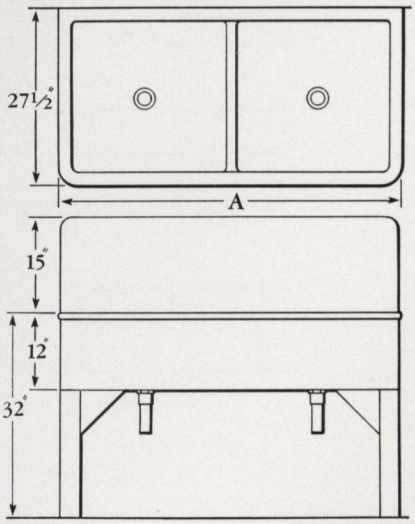
A	B
18″	12″
20″	14″
20″	16″
24″	16″
24″	18″
30″	18″
36″	18″
24″	20″
30″	20″
36″	20″

C 19-351

A	B
24″	16″
30″	18″

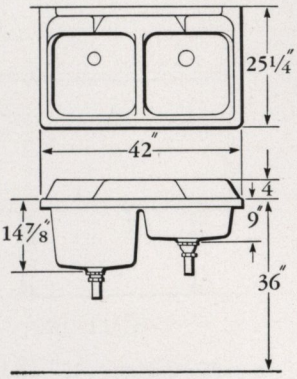
Dimensions given to show space requirements only—subject to a small variation

CRANE SINK AND LAUNDRY TUB DIMENSIONS



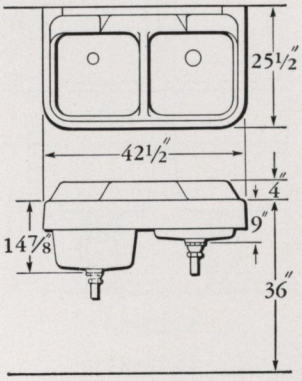
C 19-880

A—33" 39" 45" 51" 57" 63"



ASHFORD

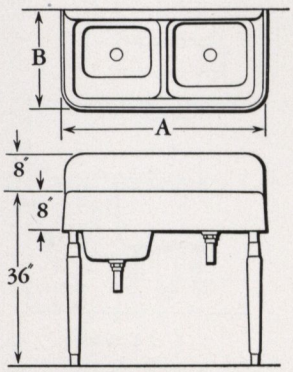
C 21-000-L



BELMONT

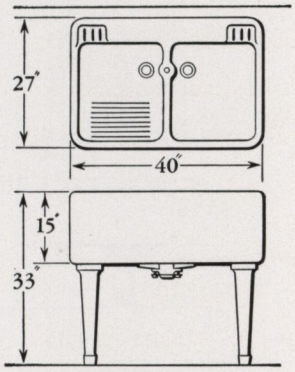
C 21-010-L

C 21-012-L



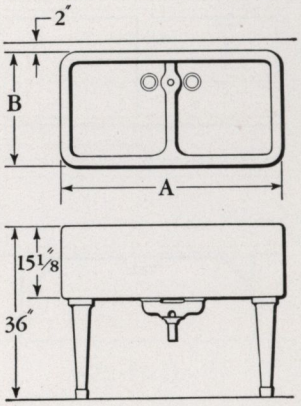
C 21-110-L

A— 36½" 42½" 50½"
B— 22¼" 22¼" 22¾"



C 21-128

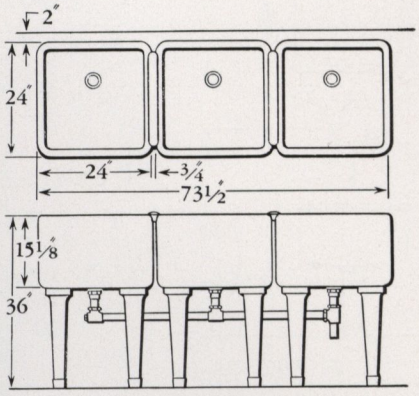
C 21-129



C 21-143

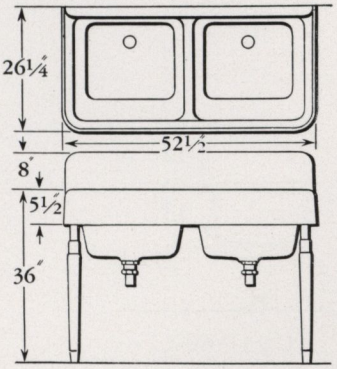
C 21-147

A— 40" 46"
B— 22" 24"

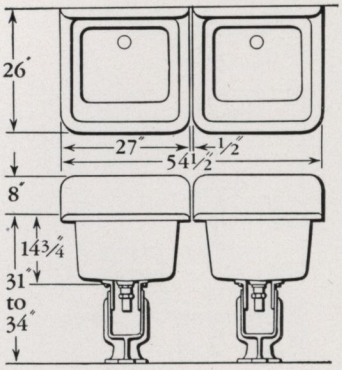


C 21-176

C 21-179



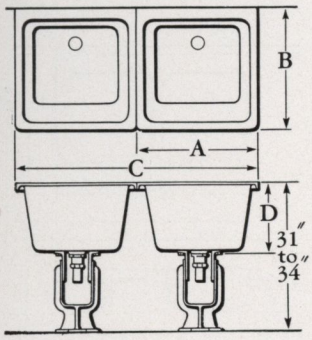
C 21-191



C 21-221

Dimensions given to show space requirements only—subject to a small variation

CRANE LAUNDRY TUB AND SERVICE SINK DIMENSIONS

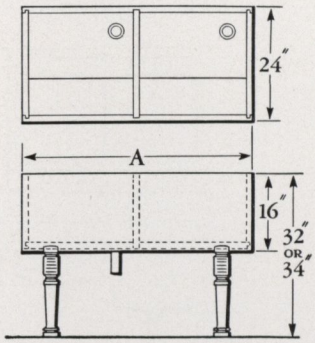


C 21-242

C 21-250

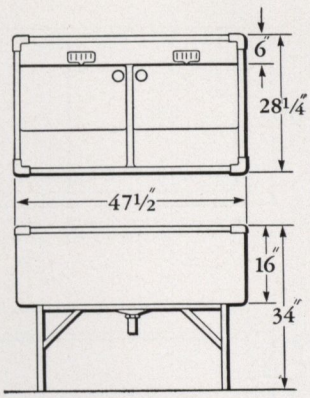
C 21-253

A	B	C	D
24″	20″	48″	14″
24″	22¾″	48″	14″
25½″	25½″	51″	14¾″



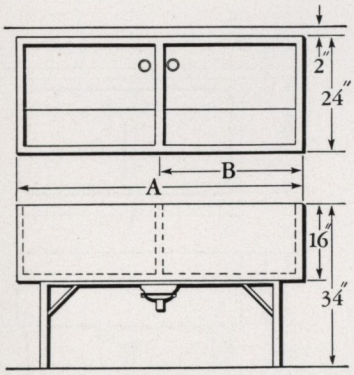
C 21-280

A—2-part—42″ and 48″
3-part—72″



C 21-293

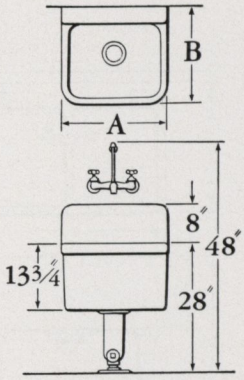
2-part shown.
3-part is 70½″ long.



C 21-294

A—	48″	54″	60″	*72″
B—	24″	27″	30″	24″

*3-part.

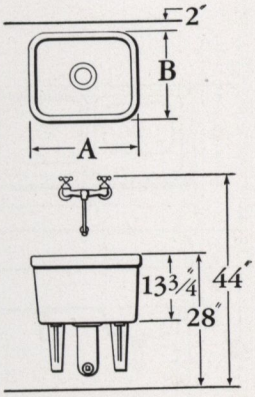


C 21-321-D

C 21-321

C 21-327

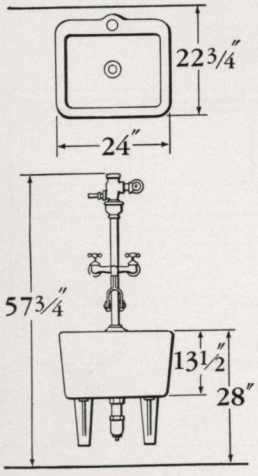
A—	20″	22″
B—	18″	20″



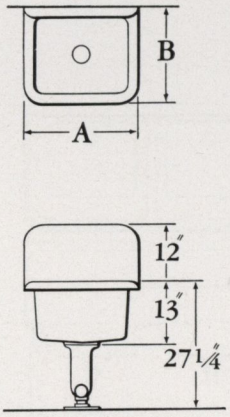
C 21-338

C 21-344

A—	20″	22″
B—	16″	18″

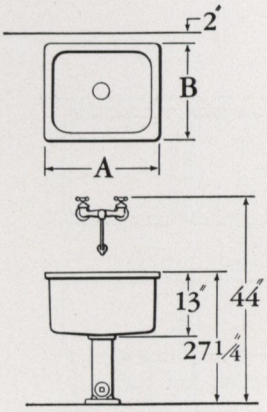


C 21-353



C 21-360-L

A—	20″	22″	24″
B—	16″	18″	20″



C 21-382

C 21-390

A—	22¼″	24″
B—	18¼″	20″

C 21-406

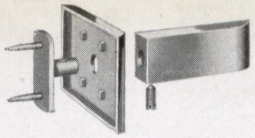
C 21-408

A	B
20¼″	16¼″
22¼″	18¼″
24″	20″

C 21-412

A	B
16″	16″
20¼″	16¼″
22¼″	18¼″
24″	20″

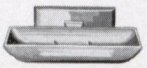
Dimensions given to show space requirements only—subject to a small variation



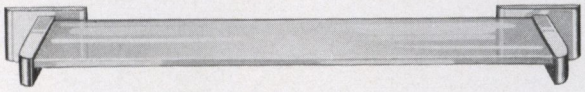
Concealed screw device

"SIMPLICITY" DESIGN ACCESSORIES

Flange mounted horizontal or vertical — *Matches Crane Neuvogue fixtures*



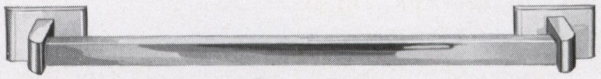
C 25-108
Metal soap holder. With drain hole if specified.



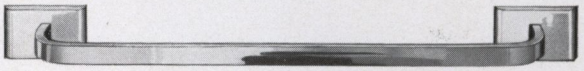
C 25-112
5/16 x 5 inch, crystal (or black) glass shelf.
Sizes: 18, 24 and 30″



C 25-111
Tumbler and toothbrush holder. Available less toothbrush holes.



C 25-113
¾ inch, square (or round) metal (crystal or black glass) towel bar.
Sizes: 18, 24 and 30″.



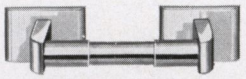
C 25-116
¾ inch, metal towel bar.
Sizes: 18, 24 and 30″.



C 25-117
Vertical grab bar.
Sizes: 18, 24, 30 and 36″.



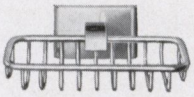
C 25-120
Double hook.



C 25-122
Paper holder with metal or wood roller.



C 25-121
Single hook.



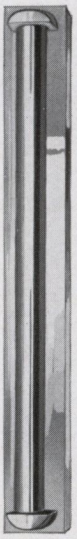
C 25-119
Shower soap holder.



C 25-123
Crystal soap holder.



C 25-125
Toothbrush holder.

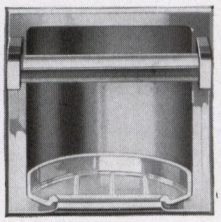


C 25-118
Lumline light fixture.
Size: 2½ x 19″.
Light bulb not included.
30 or 60 watt bulbs available.

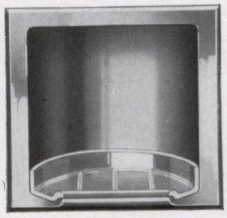
RECESS ACCESSORIES

Size overall
6⅛ x 6⅛″.

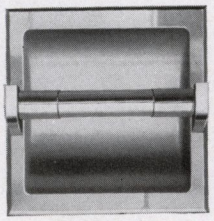
Recess in Wall
5½ x 5½″.



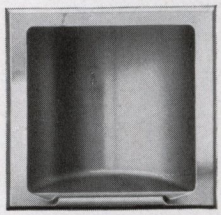
C 25-140
Soap holder and grab bar.



C 25-141
Soap holder.

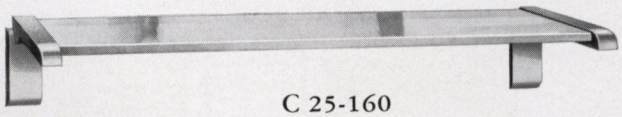


C 25-142
Paper holder.
Wood or metal roller.

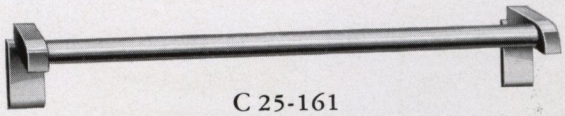


C 25-143
Tumbler holder.

"DORIC" DESIGN ACCESSORIES



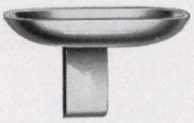
C 25-160
¼ x 5 inch crystal (or black) glass shelf.
Sizes: 18, 24 and 30″.



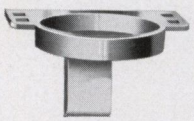
C 25-161
¾″ round (or square) metal (crystal or black glass) towel bar.
Sizes: 18, 24 and 30″.



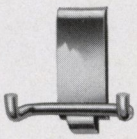
C 25-162
Paper holder (wood roll).



C 25-163
Metal soap holder.

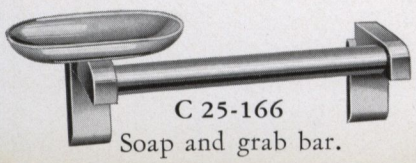


C 25-164
Tumbler and toothbrush holder.



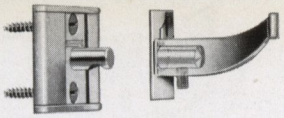
C 25-165
Double hook.

All above accessories are regularly furnished with concealed plate for wood screws. Can also be furnished with anchor plate for tile walls.



C 25-166
Soap and grab bar.

All exposed metal chromium plated

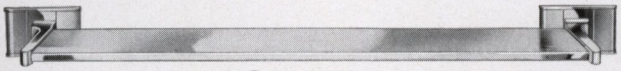


The 200 Line concealed screw device.

"ARISTOCROME" ACCESSORIES

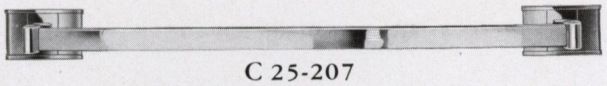
Installed with screws — or — Set in cement
(Add "S" to catalogue number) (Add "L" to catalogue number)

THE 200 LINE



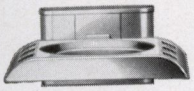
C 25-206

¼ x 5 inch crystal (opal or black) glass shelf.
Sizes: 18, 24 and 30″.



C 25-207

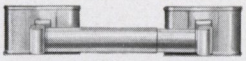
¾ x ½ inch rectangular metal towel bar.
Also available with crystal or metal round bar.
Sizes: 18, 24, 30 and 36″.



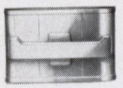
C 25-208
Tumbler and Toothbrush Holder. Available less toothbrush holes.



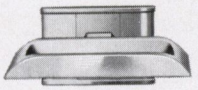
C 25-209
Single hook.



C 25-210
Paper holder with wood or metal roller.

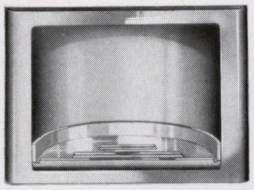


C 25-211
Double hook.

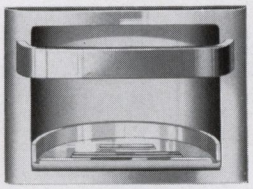


C 25-212
3 x 4″ Soap holder with or without drain holes.

RECESS ACCESSORIES



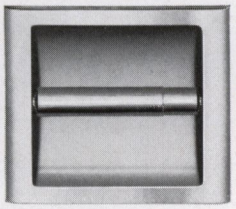
C 25-215
Soap holder with glass dish.



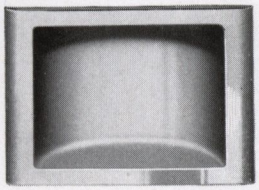
C 25-216
Soap holder and grab bar with glass dish.

*Size overall 7 x 5¼″.

†Recess in Wall 5¾ x 4⅜ x 2¾″.

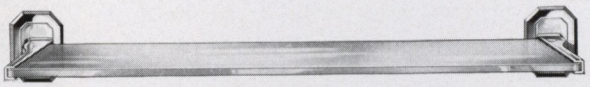


C 25-217
Paper holder with wood or metal roller.
*6½ x 6″.
†5⅜ x 5⅜ x 2¾″.



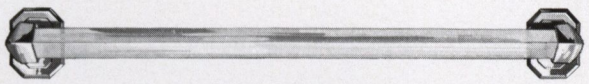
C 25-218
Tumbler holder.

THE 300 LINE



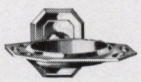
C 25-225

¼ x 5 inch crystal (opal or black) glass shelf.
Sizes: 18, 24, 30 and 36″.



C 25-228

⅞ inch square crystal (opal or black glass, or metal) towel bar. Crystal or metal round bar also available. Sizes: 18, 24, 30 and 36″.



C 25-231
Tumbler and toothbrush holder. Available less toothbrush holes.



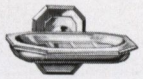
C 25-233
Single hook.



C 25-232
Paper holder with wood or metal roller.

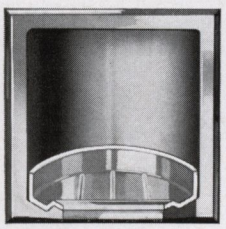


C 25-234
Double hook.

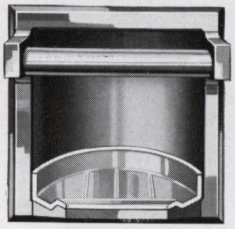


C 25-236
3x4″ Soap holder with removable glass dish. Also available with or without drain holes, less glass dish.

RECESS ACCESSORIES



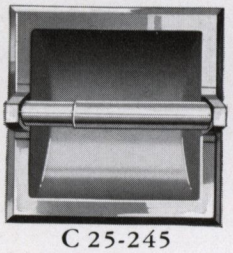
C 25-243
Soap holder with glass dish.



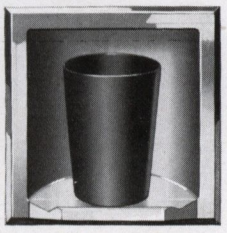
C 25-244
Soap holder and grab bar with glass dish.

Size overall 6⅛ x 6⅛″.

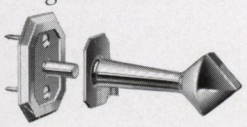
Recess in Wall 5½ x 5½ x 2″.



C 25-245
Paper holder with wood or metal roller.



C 25-247
Tumbler holder.



The 300 Line Concealed screw device.

CONCEALED LAVATORY UNIT C25-249

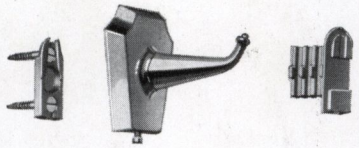
With soap dish, tumbler and toothbrush holder. Turned at the touch of a finger. Overall 7½ x 8¾″. Recess 6⅝ x 8⅜ x 3½″.



All exposed metal chromium plated.

"E-Z KROME" ACCESSORIES

Screw Attached Type

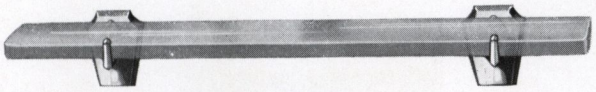


Plug Attached Type For Tile Walls

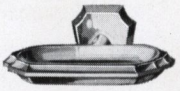
In ordering—specify if accessories are to be furnished with concealed plate and wood screws or plug attachment for tile walls.



C 25-551
Single hook.



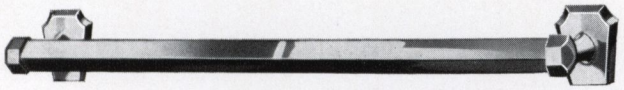
C 25-550
¼ x 5 inch crystal glass shelf.
Lengths: 18″, 24″, 30″ and 36″.
Can also be furnished with 7/16 inch crystal glass.
Can also be furnished with 5/16 or 7/16 inch black glass.



C 25-553
Soap holder.



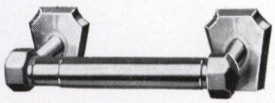
C 25-555
Toothbrush holder.



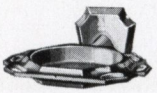
C 25-552
¾ inch square metal towel bar.
Lengths: 18″, 24″, 30″ and 36″.
Can also be furnished with ¾ inch round metal bar.
Can also be furnished with square and round crystal or black glass bars.



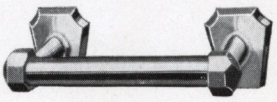
C 25-554
Tumbler holder.



C 25-557
Paper holder.
with metal or wood roller.

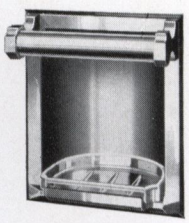


C 25-556
Tumbler and toothbrush holder.

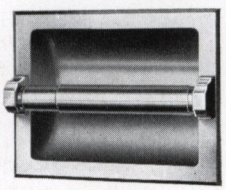


C 25-558
¾ inch hand rail
4¾ inches long.

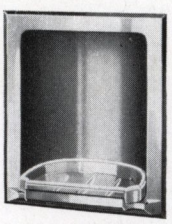
"E-Z KROME" RECESS ACCESSORIES



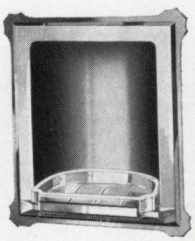
C 25-565
Soap holder and hand rail.



C 25-566
Paper holder with metal or wood roller.



C 25-567
Soap holder or tumbler holder.



View showing decorative wall frame.

Available at a small extra charge. It provides a means for covering an oversized recess.

Size Overall 6 7/16 x 5 3/8.

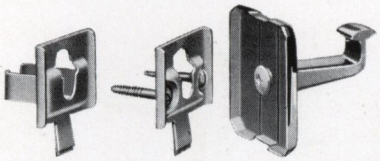
Recess in Wall 5 1/4 x 4 3/16 x 1 15/16″.

All exposed metal chromium plated

DUXBURY MATCHED ACCESSORIES

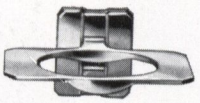


C 26-065
Robe Hook
Projection 2⅛ ins.

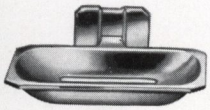


Adjustable Tile-In Device
(Specify by suffix "T" if desired.)

Concealed Screw Device
(Furnished Regularly.)



C 26-066
Tumbler Holder
Projection 3½ ins.

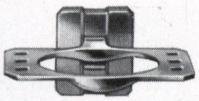


C 26-067
Metal soap dish with ribbed bottom.

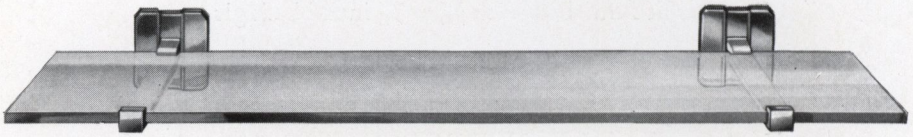
C 26-068
With drain slots.
Projection 4¼ ins.



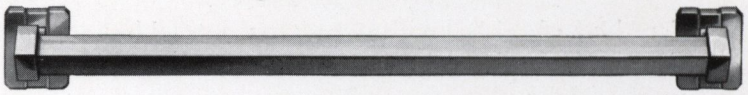
C 26-069
Paper holder with aluminum spring roll.
Length: 6″ x 3¼″ projection.



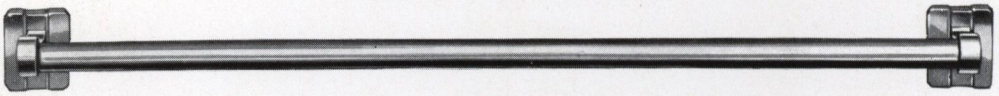
C 26-070
Tumbler and toothbrush holder
Projection 3½ ins.



C 26-071
¼″ x 5″ crystal glass shelf—Projection 5¾″.
Lengths: 18″, 24″ and 30″.

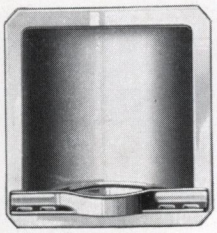


C 26-072
¾″ square metal towel bar—Projection 3″.
Lengths: 18″, 24″ and 30″.

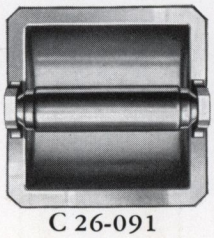


C 26-073
¾″ round metal towel bar—Projection 3¼″.
Lengths: 18″, 24″ and 30″.

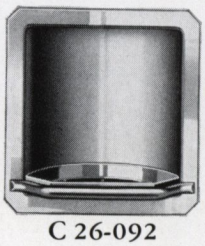
DUXBURY MATCHED RECESS ACCESSORIES



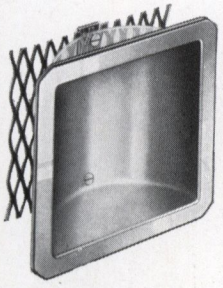
C 26-090
Tumbler and toothbrush holder



C 26-091
Paper holder with aluminum spring roll.



C 26-092
Soap holder with removable metal dish.

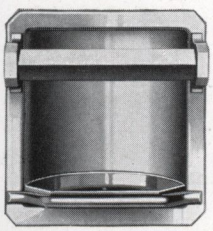


The attachment illustrated above for cementing in DUXBURY recess fixtures, is available at a small extra cost when specified.

The fixture itself may be removed at any time after the cement has set by simply releasing the chromium plated machine screws provided with the attachment.

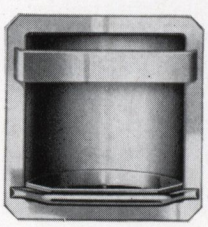
Size of recess accessories

Overall	Recess in Wall
6¼ x 6¼	5½ x 5⅛ x 2¼

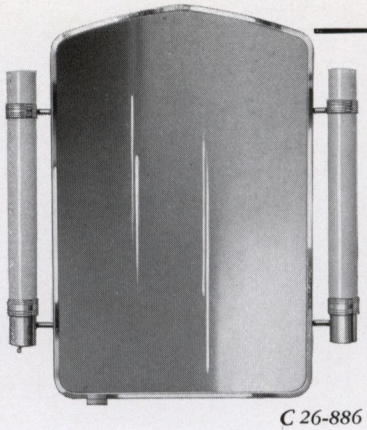


C 26-093
Soap holder and hand rail with removable perforated metal dish.

C 26-094
Soap holder and hand rail with removable perforated metal dish.



All exposed metal chromium plated



C 26-886

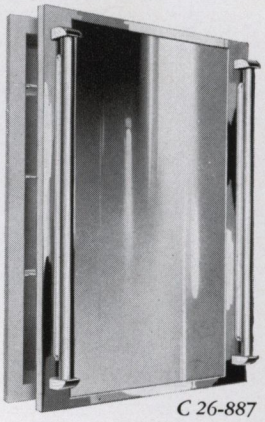
WITH TUBULAR SIDE LIGHTS (*also available less lights*)

All cabinets are of steel with the interiors and the back of doors finished in white baked-on enamel, storage depth 4¼ to 4½″ and mirrors of first quality plate glass.

C 26-886 THE "BOSTONIAN"

Polished stainless steel door frame—adjustable glass shelves and glass, bottom shelf cover—razor blade drop—tooth brush holder—lights have switch on left and convenience outlet for electrical appliances on right. (T-8, 11″ bulb required but not included.)

Mirror size:	16 x 24″	18 x 28″
Rough opening:	13¾ x 20⅛ x 3½″	15¾ x 24⅛ x 3½″
Adj. shelves:	3	4

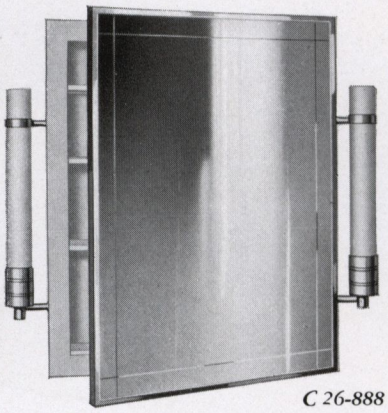


C 26-887

THE "LUMILINE" C 26-887

Chromium plated brass door frame—three adjustable glass shelves—indirect tubular lights with detachable bulb shade (30 or 60 watt 18″ Lumiline bulbs available but not included). Light switch and convenience outlet included on large size cabinet only (available on small size cabinet on special order).

Overall size:	18 x 24″	22 x 28″
Rough opening:	15¾ x 21¾ x 4″	20 x 26¾ x 4″

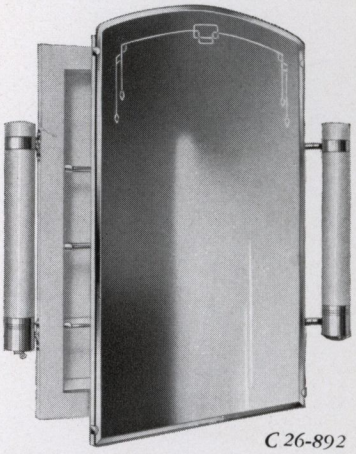


C 26-888

C 26-888 THE "PARK MANOR"

Chromium plated brass door frame—mirror has polished mitre lines (on large size only)—three adjustable glass shelves and glass, bottom shelf cover—lights with switch and convenience outlet for electrical appliances. (T-8, 11″ bulbs required but not included.)

Mirror size:	18 x 24″	20 x 26″
Rough opening:	16 x 22¾ x 4″	18 x 24¾ x 4″



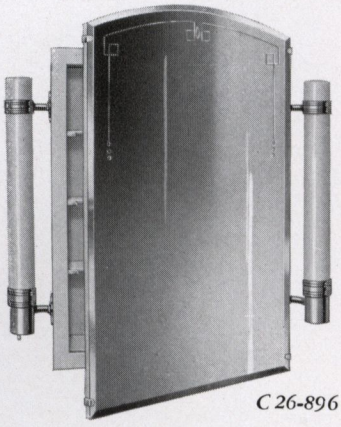
C 26-892

"UNFRAMED LUMINARY" C 26-892

Beveled decorative mirror—three adjustable glass shelves and glass, bottom shelf cover—razor blade drop—tooth brush holder—lights have switch on left and convenience outlet for electrical appliances on right. (T-8, 11″ bulbs required but not included.)

Specify "FRAMED LUMINARY" for chrom. plated door frame cabinet.

Mirror size:	Square top 18 x 24″	Curved top 18 x 26″
Rough opening:	15 x 21 x 3½″	15 x 21 x 3½″



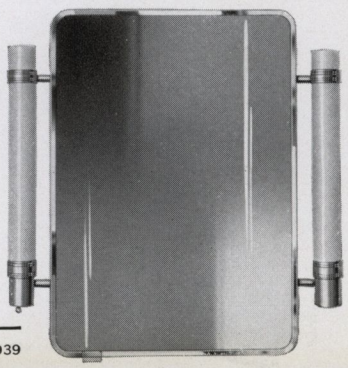
C 26-896

C 26-896 THE "BERKSHIRE"

Beveled engraved mirror with patented clips—adjustable glass shelves and glass, bottom shelf cover—razor blade drop—tooth brush holder—lights have switch on left and convenience outlet for electrical appliances on right. (T-8, 11″ bulbs required but not included.)

Mirror size:	16 x 24″	18 x 26″	18 x 28″
Rough opening:	13¾ x 20⅛ x 3½″	15¾ x 22⅛ x 3½″	15¾ x 24⅛ x 3½″
Adj. shelves:	3	4	4

C 26-908



THE "CHAMPLAIN" C 26-908

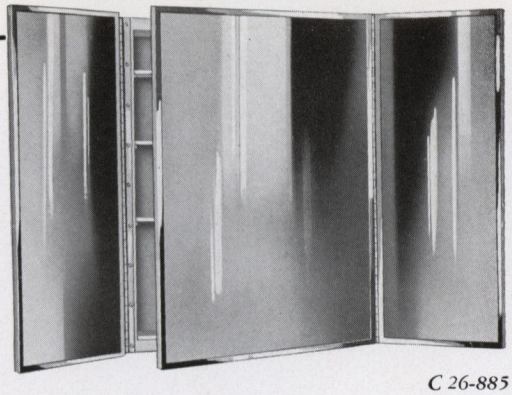
Polished stainless steel door frame—adjustable glass shelves and glass, bottom shelf cover—razor blade drop—tooth brush holder—lights have switch on left and convenience outlet for electrical appliances on right. (T-8, 11″ bulbs required but not included.)

Mirror size	Rough opening	Adjustable shelves
16 x 22″	13¾ x 20⅛ x 3½″	3
18 x 24″	15¾ x 22⅛ x 3½″	4
*18 x 31″	15¾ x 27 x 3½″	4
*21 x 27″	18¼ x 24 x 3¾″	4

*Furnished without lights.

CRANE RECESS CABINETS

All cabinets are of steel with the interiors and the back of doors finished in white baked-on enamel, and storage depth 4¼ to 4½″. Mirrors are first quality plate glass (C 26-910 and C 26-911 excepted).

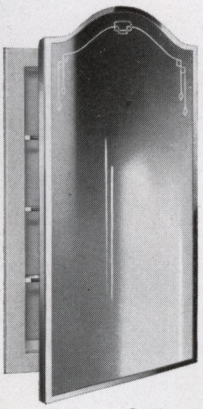


C 26-885

THE "VANITY QUEEN" C 26-885

Chromium plated brass frame on door and wings—three adjustable glass shelves and glass, bottom shelf cover.

Center mirror:	17 x 24″	19 x 26″
Wing mirrors:	8 x 24″	9 x 26″
Rough opening:	16 x 22 x 4″	18 x 24 x 4″



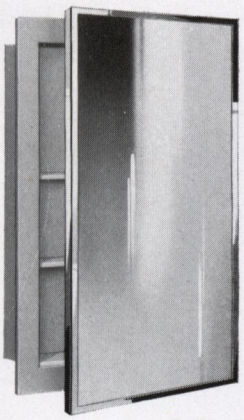
C 26-895

C 26-895 THE "FRAMED VENETIAN"

Chromium plated brass door frame—mirror has engraved decoration—adjustable glass shelves and glass, bottom shelf cover.

Specify "UNFRAMED VENETIAN" if wanted with frameless beveled mirror.

Mirror size	Rough opening	Adjustable Shelves
16 x 24″	13 x 19 x 3⅞″	2
18 x 26″	15 x 21 x 3⅞″	3
18 x 30″	15 x 24 x 3⅞″	3
20 x 32″	17 x 26 x 3⅞″	3



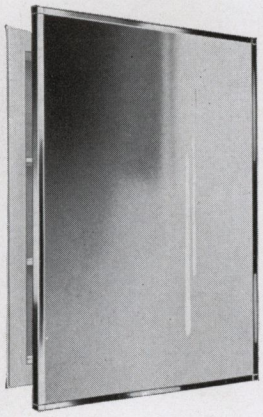
C 26-902

THE "FRAMED SIMPLICITY" C 26-902

Chromium plated brass door frame—adjustable glass shelves and glass, bottom shelf cover.

Specify "UNFRAMED SIMPLICITY" if wanted with frameless beveled mirror.

Mirror size	Rough opening	Adjustable Shelves
16 x 22″	13 x 19 x 3⅞″	2
18 x 24″	15 x 21 x 3⅞″	3
18 x 27½″	15 x 24 x 3⅞″	3
20 x 30″	17 x 26 x 3⅞″	3



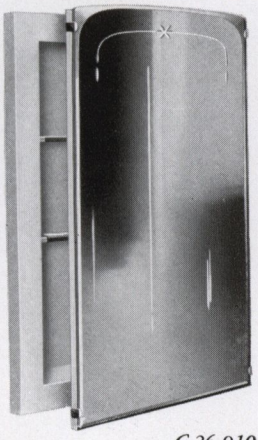
C 26-909

C 26-909 THE "CLARENDON"

Chromium plated brass door frame with interlocking corners—two glass shelves and glass, bottom shelf cover.

Note: Available on order with mitre line mirror like C 26-888 at extra cost.

Mirror size:	18 x 24″	20 x 26″
Rough opening:	15¼ x 21¼ x 3⅞″	17¼ x 3¼ x 3⅞″



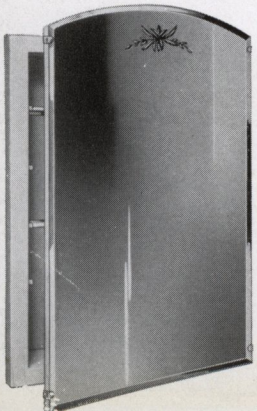
C 26-910

CRYSTAL CHAMPION C 26-910

Beveled decorative crystal mirror—two adjustable glass shelves—razor blade drop—tooth brush holder.

Mirror size:	16 x 22″
Rough opening:	13 x 19 x 3½″

C 26-911



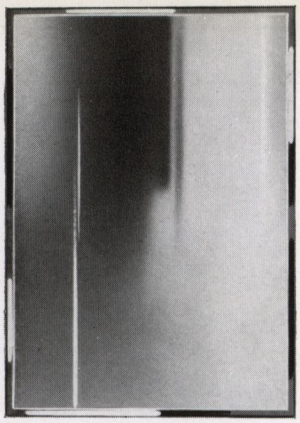
C 26-911 THE "COTTAGE"

Framed venetian type steel cabinet—beveled edge crystal mirror with floral engraving—two adjustable glass shelves—razor blade drop—tooth brush holder.

Specify THE "SUFFOLK" if wanted with polished stainless steel door frame.

Specify THE "NASSAU" if wanted with black enameled door frame.

Mirror size:	15½ x 23″
Rough opening:	13⅝ x 18⅝ x 3½″



C 27-270

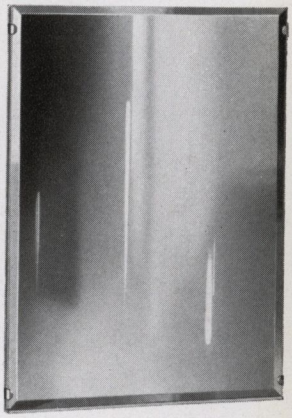
POWDER ROOM MIRRORS

C 27-270

First quality plate glass mirror with chromium plated frame and non-ferrous metal back with concealed hanger.

Sizes: 12 x 18″, 16 x 20″, 18 x 24″, 20 x 26″, 24 x 48″, 20 x 60″

Note: Theft-Proof mirrors with patented locking device available.

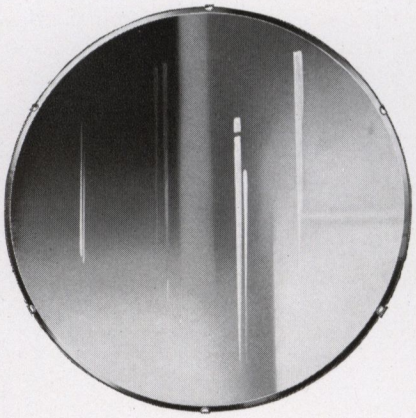


C 27-271

C 27-271

Selected plate glass beveled edge mirror with a baked enamel steel back and polished stainless steel clips.

Sizes: 12 x 16″ and 16 x 22″.

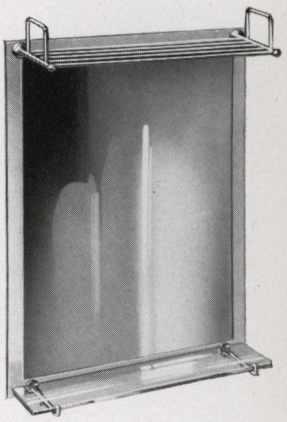


C 27-273

C 27-273

Selected plate glass beveled edge circular mirror with white baked enamel steel back and polished stainless steel clips.

24″ diameter.



C 27-300

C 27-300

Mirror, shelf and towel shelf combination with 16 x 22″ quality plate glass mirror, 18 x 4 x ½″ crystal glass shelf and brass towel shelf. Exposed metal chromium plated.

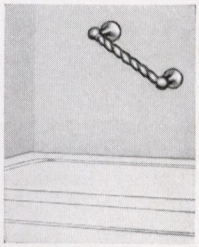
Size overall: 18 x 24″.

Note: Available less towel shelf.

HAND RAILS AND GRAB BARS

Of heavy brass construction, chromium plated.

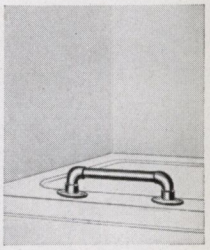
Sizes and styles that offer conveniently placed and practical support.



C 26-285

Knurled grab bar with brackets.

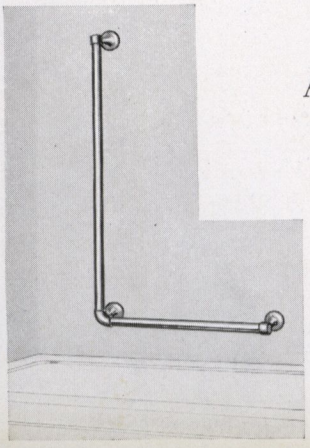
1″ I.P.S. x 12″ long.



*C 26-297

Hand rail with brackets.

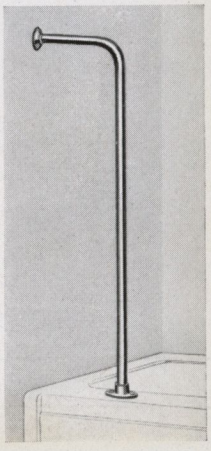
¾″ I.P.S. x 12″ long.



C 26-292

Angle hand rail with brackets.

¾″ I.P.S. x 18 x 36″.



*C 26-296

Hand rail with supports.

¾″ I.P.S. x 12 x 42″.

*Requires bath rim drilled at factory.
(Extra charge for each drilling.)

Recommend hand rails and grab bars with all Crane baths.

For other grab bars see pages 78 and 79.

BATH STOOLS



C 27-124

Tubular brass bath stool with top enameled in white, black or any Crane color. (See color chart, Page III.)

Size: 15¾″ high x 12¾″ dia.

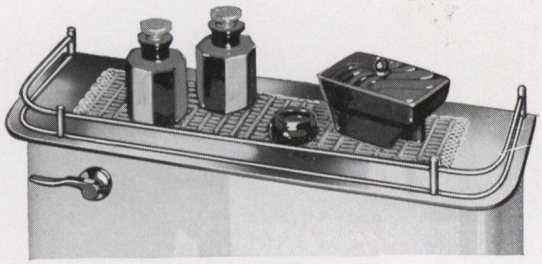


C 27-125

Modern tubular brass bath stool with waterproof sheet covered top in white, black or any Crane color. (See color chart, Page III.)

Size: 15½″ high x 13″ dia.

CLOSET TANK SHELF COVER

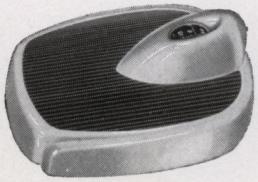


C 27-460

Excellent for replacing broken china covers. All brass combination cover and shelf with guard rail and adjustable friction clamps, for wall hung closet tanks.

23⅞″ x 8¼″ for 8 gal. tank.
20¾″ x 8″ for 6 gal. tank.

BATHROOM SCALES



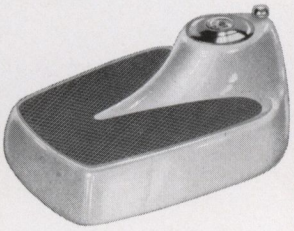
C 27-133

250 lb. capacity Health-o-Meter scale with rotary dial and inlaid rubber platform.



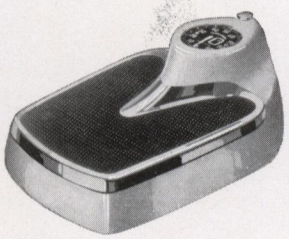
C 27-135

250 lb. capacity Health-o-Meter scale with magnifying lens built into brass cap over the rotary dial, inlaid rubber platform.



C 27-139

250 lb. capacity Health-o-Meter scale with rotary dial, powerful magnifying lens and inlaid rubber platform.



C 27-140

300 lb. capacity Health-o-Meter scale with aeroplane type dial that facilitates reading and inlaid rubber platform.

Available in white, green, ivory, peach, blue, yellow or black oven-baked enamel.

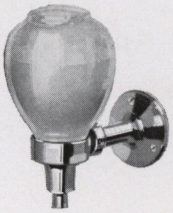
LIQUID SOAP FIXTURES



C 27-409

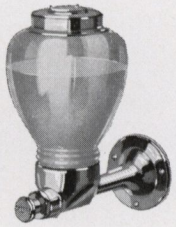
Brass push button spout dispenser with round glass jar for application thru faucet hole of lavatories up to 1¼″ thick.

Note: Available with longer shank for lavatories up to 4½″ thick.



C 27-406

Brass push-up type dispenser with wall bracket and glass jar.



C 27-407

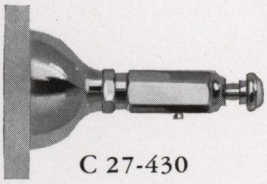
Brass push-in type dispenser with wall bracket and glass jar.



C 27-425

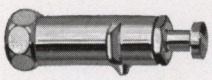
Vitreous china storage tank with gauge showing contents in quarts, ⅜″ I.P. outlet spud.

Sizes: 1¼, 2, and 5 gallon capacities.



C 27-430

⅜″ brass push button soap valve with metal escutcheon, for concealed piping.



C 27-433

⅜″ brass push button soap valve for exposed piping.

C 27-420

Semi-cylindrical storage tank of rust-resisting metal finished in white or gray baked-on-enamel, with float gauge, strainer, ⅜″ discharge pipe with stop, and wall support.

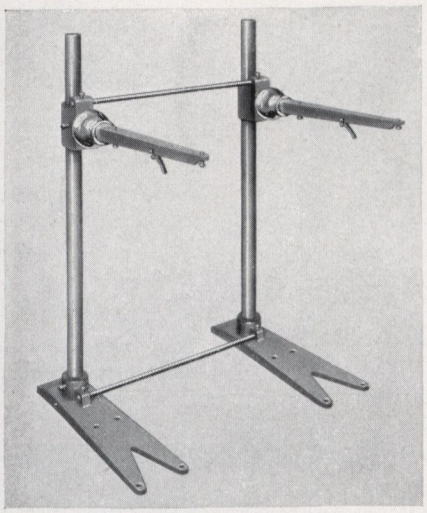
Sizes: 2, 3, 5 and 10 gallon capacities.

Note: Available with polished monel metal tank at extra cost.

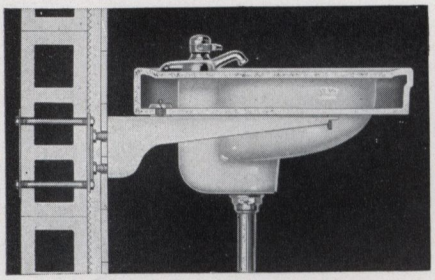


All exposed brass parts chromium plated.

CAST IRON CHAIR AND WALL CARRIERS



C 33-656
Outside View—Chair Carrier with Exposed Brackets



C 33-652
Wall Carrier with Exposed Brackets
Sectional View Showing Assembly to Lavatory

Note: When ordering carriers, catalogue number and size of fixtures to be supported must be given.

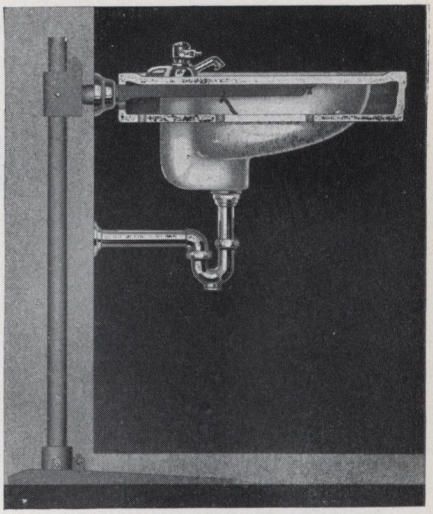
CHAIR CARRIERS

Built-in chair carriers provide a practical and economical solution to the problem of suitable support where walls are not sufficiently strong to carry the weight of a heavy fixture. Brackets extending through the finished wall are supported from the floor by the built-in base plates and pipe standards. As the fixture rests directly on these brackets, its entire weight is on the carrier.

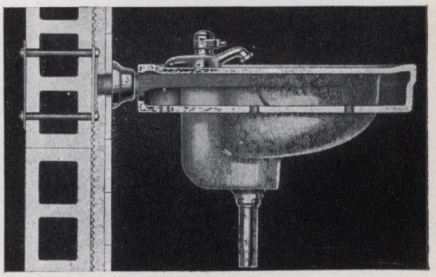
Ample adjustment, both vertical and horizontal, is provided to permit easy and economical installation.

WALL CARRIERS

Built-in wall carriers are particularly recommended for installation where walls are of hollow tile construction. The front wall plates have integral studs which extend through wall for attaching the brackets. The wall finish can be applied before placing brackets, as ample adjustment allows for variations in thickness. The brackets have screws at front for leveling the fixture supported.



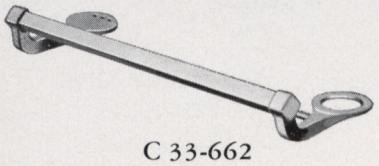
C 33-658
Sectional View Showing Chair Carrier with Concealed Bracket



C 33-654
Wall Carrier with Concealed Brackets
Sectional View Showing Assembly to Lavatory

LAVATORY TOWEL BARS AND LEGS

For china lavatories except where designated



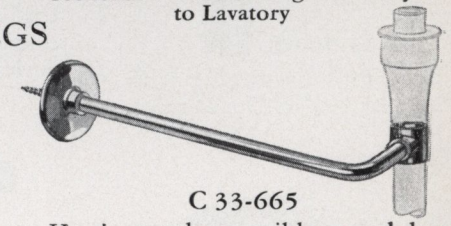
C 33-662

Square design metal towel bar for use with C 33-676-C, C 33-725-AC or C 33-726-C legs. Furnished in pairs.



C 33-667

Handy Sq. metal reversible towel bar for use on china lavatories without legs.

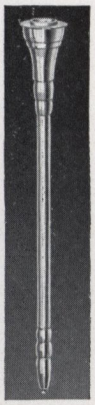


C 33-665

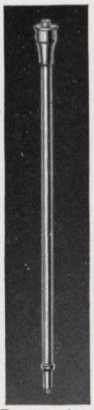
Handy metal reversible towel bar for attachment with *Rival* metal leg.

C 33-666

Handy Sq. same with square bar.

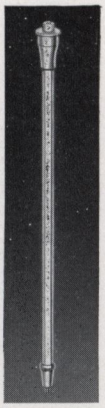


C 33-676-C
Ornamental round metal leg.



C 33-677
Rival round metal leg.

C 33-674
Same for enameled lavatories.

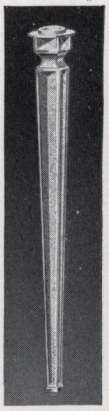


C 33-678
Rival hexagon metal leg.

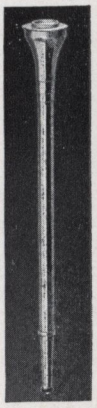
C 33-675
Same for enameled lavatories.



C 33-722-GC
Round crystal glass leg with metal sockets.

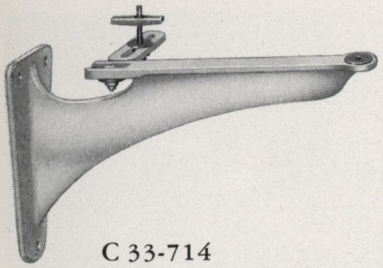


C 33-725-AC
Square paneled metal leg.

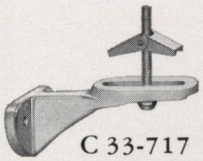


C 33-726-C
Octagonal metal leg.

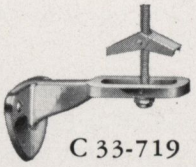
LAVATORY AND SINK TRIMMINGS



C 33-714
Porcelain enameled cast iron lavatory bracket with toggle bolt.

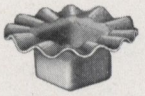


C 33-717
Porcelain enameled cast iron wall bracket with toggle bolt and screws.

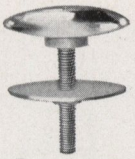


C 33-719
Brass wall bracket with toggle bolt and screws.

For leg or pedestal lavatories.

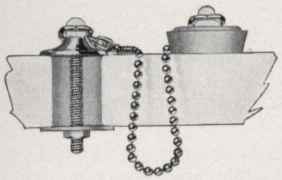


C 33-745
Cadmium plated stamped steel washer for basin faucet shanks.

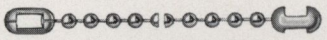


C 33-730
Brass faucet hole cover, for lavatories and sink backs.

C 33-732
Vitreous china faucet hole cover.



C 33-752
Chain stay with bead chain and 1¼″ rubber stopper.



No. 10 bead chain with type "B" coupling. Also available with type "A" coupling.



No. 13 bead chain with type "A" coupling.

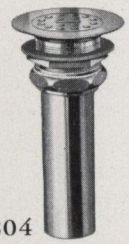


No. 00 plumbers link chain. Furnished in 250 or 500 ft. reels.

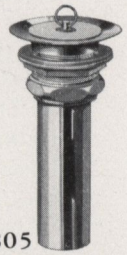
10″ long for lavatories—14″ long for baths—18″ long for laundry tubs. Also less couplings in 250 ft. reels.



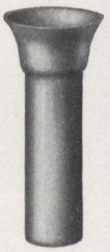
C 33-800-B
Brass P.O. basin plug with 1¼″ or 1½″ O.D. tailpiece.



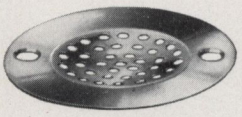
C 33-804
Brass open strainer with 1¼″ or 1½″ tailpiece for enameled sinks with 2⅛″ outlet.



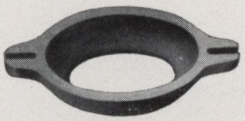
C 33-805
Brass plug with rubber stopper and 1¼″ or 1½″ tailpiece for enameled sinks with 2⅛″ outlet.



C 33-815
Rough N.P. funnel connection. 1¼″ or 1½″ by 4″, or 6″ long.



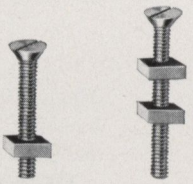
C 33-844
4⅝″ dia. brass open sink strainer. 3¾″ bolt centers.



C 33-846
Plain cast iron sink coupling for lead pipe, 1¼″ or 1½″.

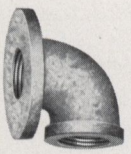
C 33-847
Same, tapped for iron pipe.

BRASS SINK BOLTS

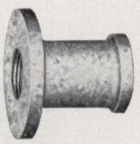


Short ¼ x 1″. Long ¼ x 2¼″.

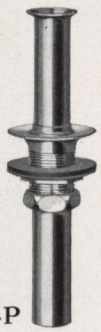
FLANGED SINK FITTINGS
Galvanized



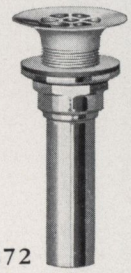
No. 1, Elbow.



No. 2, Straight.

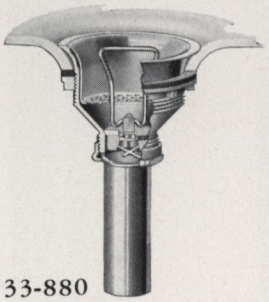


C 33-852-P
Open standing waste and overflow with coupling and 1½″ O.D. tailpiece for porcelain sinks.

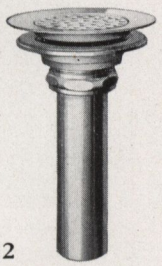


C 33-872
Cast brass open strainer with 1½″ O.D. tailpiece for china and porcelain sinks or laundry tubs.

C 33-860
Same except with 1½″ rubber stopper.



C 33-880
Recepto hand-operated waste with large removable cup strainer and 1½″ tailpiece for china or enameled sinks with 3½″ outlet.



C 33-882
Speedflow open strainer with 1½″ O.D. tailpiece for enameled sinks with 3½″ outlet.

CRANE VITREOUS CHINA BATHROOM ACCESSORIES

- Match the white or color in Crane Plumbing Fixtures.
- Reflect the neat, crisp lines of the ***Corwith*** Group.
- Accessories with wedge-type clip-on hangers, may be attached to the wall after Tile Setter and Decorator are off the job.
- Built-in recess accessories have a flange to lap the joint between fixture and tile.

SEE COLOR CHART—PAGE III—FOR RANGE OF COLORS

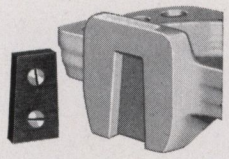
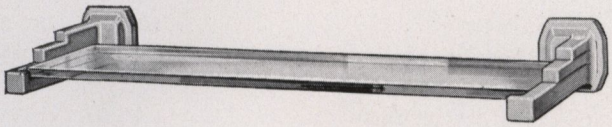


Illustration showing manner in which fixtures having wedge-type clip-on hangers are installed. Screw clip to wall, then slip on the fixture.

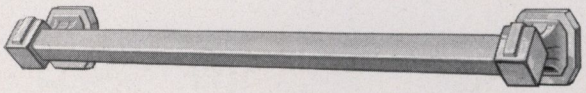


C 24914

Crane ¼x5 inch crystal glass shelf with vitreous china brackets.

Length . . . . . **Inches 18**

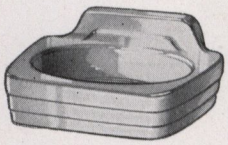
Other lengths furnished on special order.



C 24925

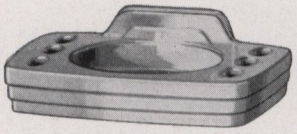
Crane ⅞ inch square sheet covered towel bar with china brackets.

Length . . . . . **Inches** 18 24 30 36



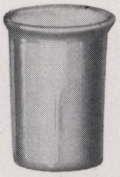
C 24932

Crane china tumbler holder 3½x3⅜ inches.



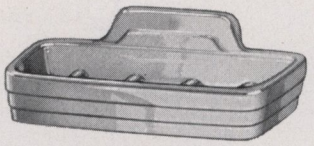
C 24935

Crane china combination tumbler and toothbrush holder 3½x4⅞ inches.



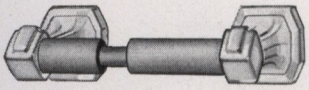
C 24938

Crane china tumbler.



C 24940

Crane china soap dish 3⅜x4⅞ inches.



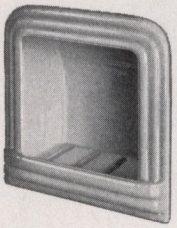
C 24956

Crane toilet paper holder with china brackets.



C 24960

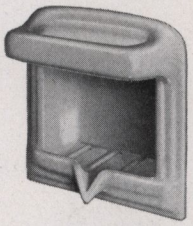
Crane china robe hook.



C 24970

Crane china built-in recess soap holder.

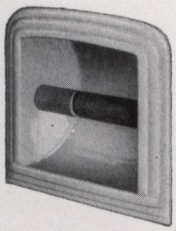
Wall opening . . . . . **Inches 6x6**
Recess in wall . . . . . **Inches 3⅝**



C 24975

Crane china built-in recess grab bar and soap holder with lip drain.

Wall opening . . . . . **Inches 6x6**
Recess in wall . . . . **Inches 3⅝**



C 24984

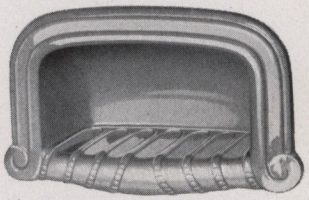
Crane china built-in recess paper holder.

Wall opening . . . . . **Inches 6x6**
Recess in wall . . . . . **Inches 3⅝**



C 25270

Crane pedestal soap dish. China or all metal, chromium plated.



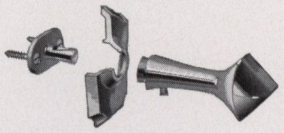
C 25285

Crane china built-in recess ornamental soap holder.

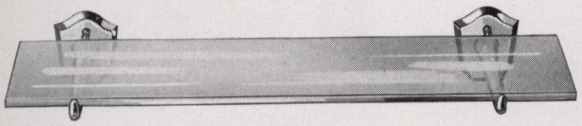
Wall opening . . . . . **Inches 7⅛x4⅜**
Recess in wall . . . . . **Inches 3⅝**

"MANHATTAN-TYTESET" ACCESSORIES

- ATTRACTIVE DESIGN
- FORGED BRASS — CHROMIUM PLATED



- EASILY INSTALLED
- NO EXPOSED SCREWS



C 24990

¼x5 inch, crystal glass shelf.

Length . . . . . **Inches** 18 24 30



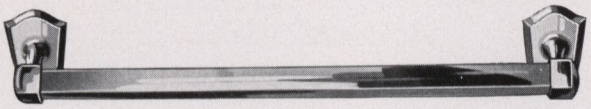
C 24991

Single hook.



C 24992

Double hook.

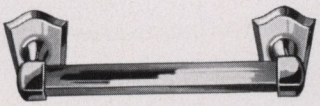


C 24993

¾ inch, square metal towel bar.

Length . . . . . **Inches** 18 24 30

Can also be furnished with square or round crystal glass bar.



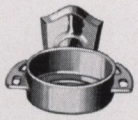
C 24994

¾x9 inch, square metal grab bar.



C 24995

Tumbler holder.



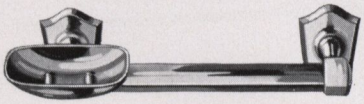
C 24996

Tumbler and toothbrush holder.



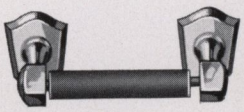
C 24997

Toothbrush holder.



C 24998

¾x9 inch, metal soap holder and grab bar.



C 24999

Paper holder with wood roller.



C 25000

Crystal soap holder.



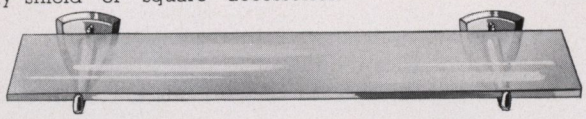
C 25001

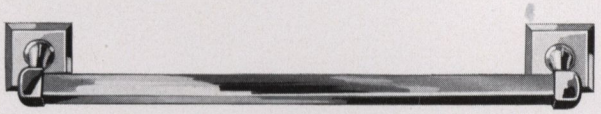
Metal soap holder.

Size . . . . . **Inches** 6¼x5 7¼x5¾

"SHIELD" AND "SQUARE" TYTESET ACCESSORIES

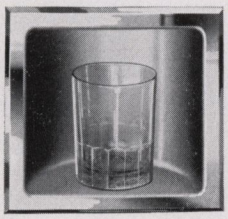
Any of the Manhattan-Tyteset accessories can be furnished with the shield or square flanges shown below. In ordering—use above catalog numbers but specify "shield" or "square" accessories.





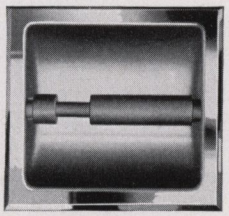
RECESS ACCESSORIES

Chromium plated—drawn in one piece—to be cemented in wall—no buck required.



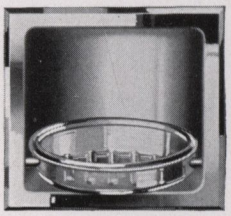
C 25005

Tumbler holder.



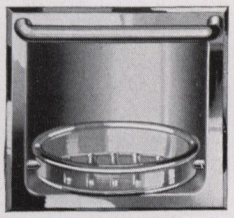
C 25006

Paper holder with wood or metal roller.



C 25007

Soap holder with crystal or black dish.



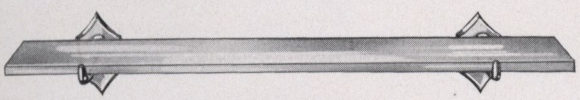
C 25008

Soap holder and grab bar with crystal or black dish.

Size . . . . . **Inches**	**Overall**	**Recess in Wall**
	7¼x7¼	6¼x6¼

"PARFAIT" ACCESSORIES

A beautiful and distinctive design of which only a few fixtures are shown below. A complete line is available including glass shelf, towel bars, single and double hooks, soap holders, tumbler holders, toothbrush holders, etc.



C 25050

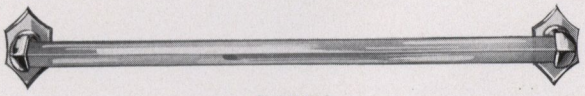
⅜x5 inch, crystal glass shelf.

Length . . . . . **Inches** 18 24 30 36



C 25094

Single hook.



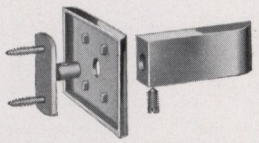
C 25058

⅞ inch, square glass towel bar.

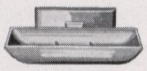
Length . . . . . **Inches** 18 24 30 36

"SIMPLICITY" DESIGN ACCESSORIES

- DISTINCTIVE STYLE
- HARMONIOUSLY COMPLETE
- MATCHES CRANE NEUVOGUE FIXTURES

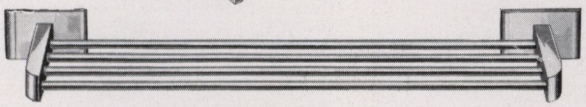


- FORGED BRASS — CHROMIUM PLATED
- CONCEALED SCREW DEVICE
- FLANGE MOUNTED HORIZONTAL OR VERTICAL



C 25108

Metal soap holder.
Specify if wanted with drain hole.



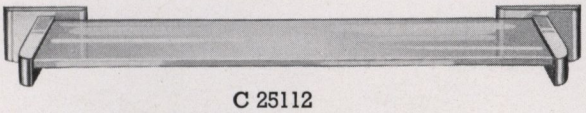
C 25109

6x24 inch, towel shelf



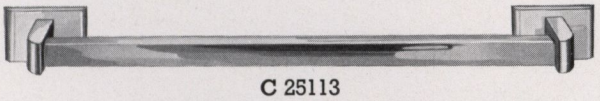
C 25111

Tumbler and toothbrush holder.
Can also be furnished less holes for toothbrushes.



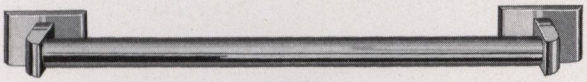
C 25112

5/16x5 inch, crystal glass shelf.
Length ..... **Inches** 18 24 30
Can also be furnished with black glass.



C 25113

¾ inch, square metal towel bar.
Length ..... **Inches** 18 24 30
Can also be furnished in crystal or black glass.



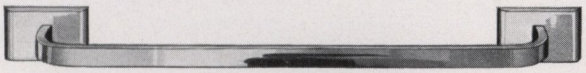
C 25114

1 inch, round crystal glass towel bar.
Length ..... **Inches** 18 24 30
Can be furnished in black glass or metal. Also ¾ inch diameter.



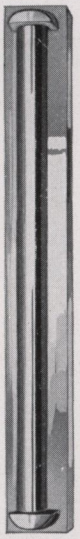
C 25117

Vertical grab bar.
Size: 18, 24 and 36 in.



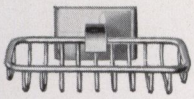
C 25116

¾ inch, metal towel bar.
Length ..... **Inches** 18 24 30



C 25118

Lumiline light fixture.
Size, overall Inches 2½x19
Light bulb not included, but can be furnished with 30 or 60 watt bulb.



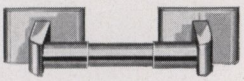
C 25119

Shower soap holder.



C 25120

Double hook.



C 25122

Paper holder with metal roller.



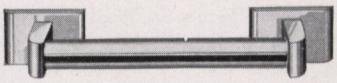
C 25121

Single hook.



C 25123

Crystal soap holder.



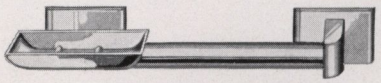
C 25124

1x9 inch, round metal grab bar.



C 25125

Toothbrush holder.

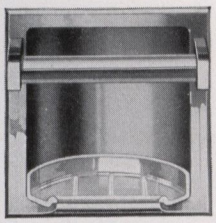


C 25126

¾x9 inch, metal soap holder and grab bar.

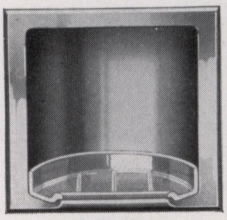
Above accessories are regularly furnished with concealed plate for wood screws. Can also be furnished with anchor plate for tile walls.

RECESS ACCESSORIES



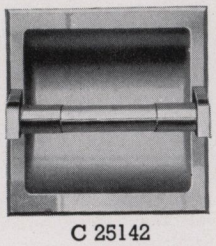
C 25140

Soap holder and grab bar.



C 25141

Soap holder.



C 25142

Paper holder.
Wood or metal roller.



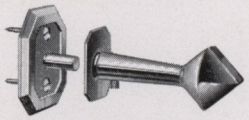
C 25143

Tumbler holder.

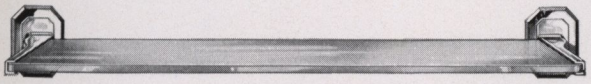
Size of recess accessories ..... **Inches**	**Overall**	**Recess in Wall**
	6⅛x6⅛	5½x5½

"ARISTOCROME" ACCESSORIES

- ATTRACTIVE DESIGN
- CHROMIUM PLATED — FORGED BRASS



- CONCEALED SCREWS
- POPULAR PRICED



C 25225

¼x5 inch crystal glass shelf.

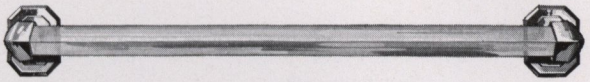
Length . . . . . **Inches** 18 24 30 33

Can also be furnished with opal or black glass shelf.



C 25227

Toothbrush holder.



C 25228

⅞ inch square glass towel bar.

Length . . . . . **Inches** 18 24 30 36

Can also be furnished with opal or black glass square bar; crystal glass round bar; colored pyralin square bar and chromium plated square or round metal bar.



C 25229

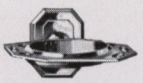
⅞x8 inch square metal grab bar.

Can also be furnished with round metal bar.



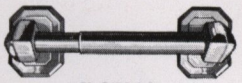
C 25230

Tumbler holder.



C 25231

Tumbler and Toothbrush holder.



C 25232

Paper holder with wood or metal roller.



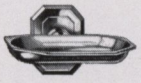
C 25233

Single hook.



C 25234

Double hook.

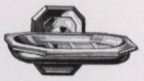


C 25235

Soap holder.

Size . . . . **Inches 3x4 3¾x5¼**

Can be furnished with or without drain holes.



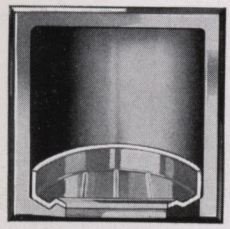
C 25236

Soap holder with removable glass dish.

Size . . . . . **Inches 3x4**

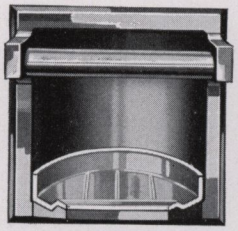
RECESS ACCESSORIES

Chromium plated brass—can be furnished to be installed with screws or set in cement.



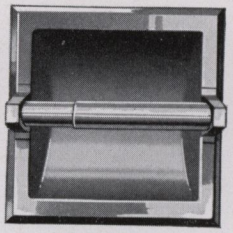
C 25243

Soap holder with glass dish.



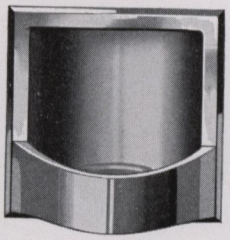
C 25244

Soap holder and grab bar with glass dish.



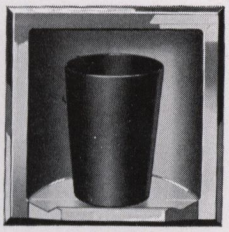
C 25245

Paper holder with wood or metal roller.



C 25246

Sponge holder.

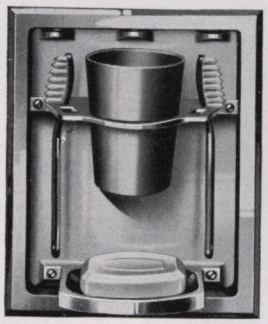


C 25247

Tumbler holder.

Size . . . . . **Inches**	**Overall**	**Recess in Wall**
	6⅛x6⅛	5½x5½x2

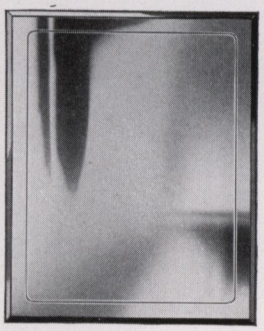
CONCEALED LAVATORY UNIT



Open—with soap dish, tumbler and toothbrush holder exposed for use.



Turned at the touch of a finger.



Closed — all accessories hidden from sight, giving a neat appearance.

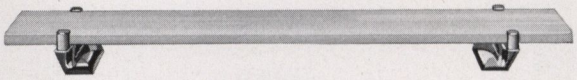
C 25249

Chromium plated concealed lavatory unit with soap dish, tumbler and toothbrush holder.

Size . . . . . **Inches**	**Overall**	**Recess in Wall**
	7½x8¾	6⅝x8⅜x3½

"HEXAGONAL BASE" ACCESSORIES

Matches Crane design 40 trimmings—solid brass—chromium plated—concealed screw.



C 25190

½x5 inch, crystal glass shelf.

Length.....Inches 18 24 30 36



C 25191

Single hook.



C 25192

Double hook.

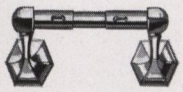


C 25193

⅞ inch, crystal glass towel bar.

Length.....Inches 18 24 30 36

Can also be furnished with round or square bars in glass or metal.



C 25194

Paper holder.



C 25195

Tumbler holder.



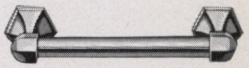
C 25196

Glass soap holder.



C 25197

Toothbrush holder.



C 25198

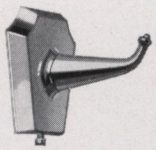
1x9 inch, round metal hand rail.

"E-Z KROME" ACCESSORIES

KEYSTONE DESIGN BRASS — CHROMIUM PLATED

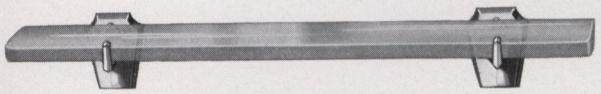
SCREW ATTACHED TYPE







PLUG ATTACHED TYPE FOR TILE WALLS



C 25550

¼x5 inch crystal glass shelf.

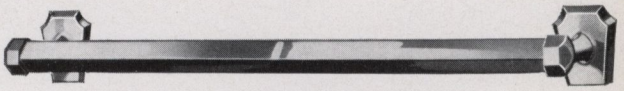
Length.....Inches 18 4 3 3

Can also be furnished with 7/16 inch crystal glass.
Can also be furnished with 5/16 or 7/16 inch black glass.



C 25551

Single hook.

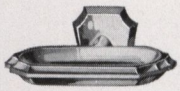


C 25552

¾ inch square metal towel bar.

Length.....Inches 18 24 30 36

Can also be furnished with ¾ inch round metal bar.
Can also be furnished with square and round crystal or black glass bars.



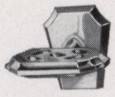
C 25553

Soap holder.



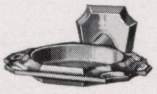
C 25554

Tumbler holder.



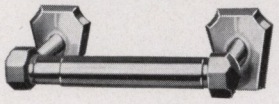
C 25555

Toothbrush holder.



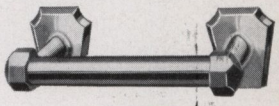
C 25556

Tumbler and tooth-brush holder.



C 25557

Paper holder with metal or wood roller.

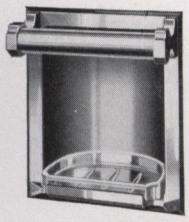


C 25558

¾ inch hand rail 4¾ inches long.

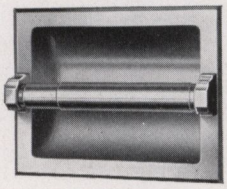
In ordering—specify if accessories are to be furnished with concealed plate and wood screws or plug attachment for tile walls.

"E-Z KROME" RECESS ACCESSORIES



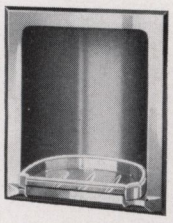
Soap holder and hand rail.

C 25565



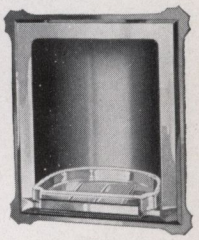
Paper holder with metal or wood roller.

C 25566



Soap holder or tumbler holder.

C 25567



View showing wall frame assembled to recess soap holder.

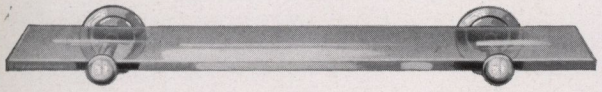
Size of recess accessories

Overall	Recess in Wall
6 7/16 x 5 3/8	5 1/4 x 4 3/16

The above recess accessories can be furnished with a decorative chromium plated loose wall frame at a small extra charge. This feature (illustrated at right) presents an attractive design. It also provides a means for covering an oversized recess as the flange has an overall size of 6¾x5⅝ inches.

THE CHILTON ACCESSORIES

- UNIQUE MODERN DESIGN
- GOOD WORKMANSHIP

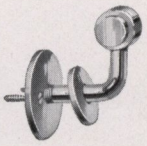


C 26075

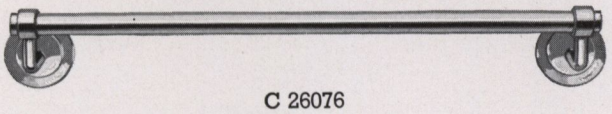
5/16x5 inch, crystal glass shelf

Length . . . . . **Inches** 18 24 30

Can also be furnished with black glass.



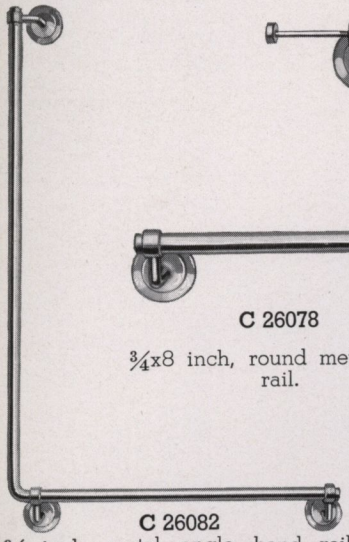
- BRASS — CHROMIUM PLATED
- CONCEALED SCREWS



C 26076

3/4-inch, round metal towel bar.

Length . . . . . **Inches** 18 24 30

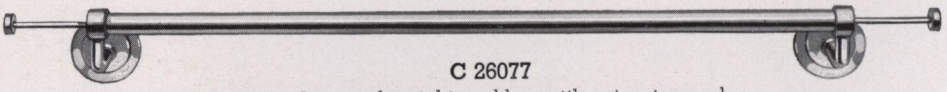


C 26082

3/4 inch, metal angle hand rail

Size . . . . . **Inches 18x36**

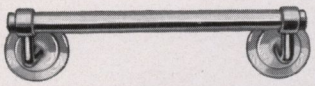
Can be furnished with right or left hand vertical bar.



C 26077

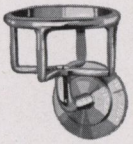
3/4 inch, round metal towel bar with extension ends.

Length . . . . . **Inches** 18 24 30



C 26078

3/4x8 inch, round metal hand rail.



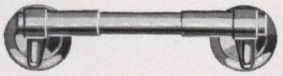
C 26079

Tumbler holder.



C 26080

Tumbler and tooth-brush holder.



C 26081

Paper holder with metal roller.



C 26083

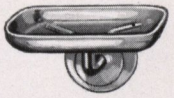
Metal soap dish.

Size: 5x3 1/4 inches



C 26084

Double hook.



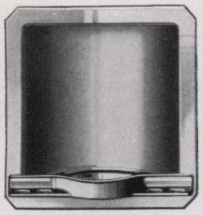
C 26085

Metal soap dish.

Size: 4x3 1/4 inches

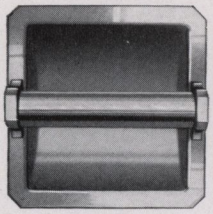
The above accessories can also be furnished with a jet black secondary disc to conceal screw heads in place of chromium plated discs.

THE DUXBURY RECESS ACCESSORIES



C 26090

Tumbler and tooth-brush holder.

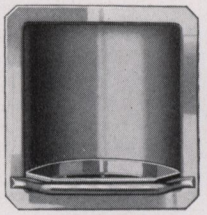


C 26091

Paper holder.

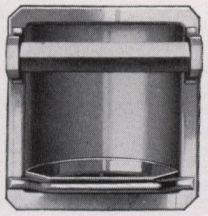
DIMENSIONS

Overall Inches	Recess in wall Inches
6 1/4x6 1/4	5 1/8x5 1/8x 2 1/4



C 26092

Soap holder.

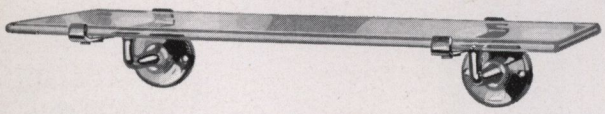


C 26093

Soap holder and hand rail.

ENDICOTT EXPOSED SCREW ACCESSORIES

Cast Brass—Chromium Plated



***C 26102**

5/16x5 inch, crystal glass shelf.

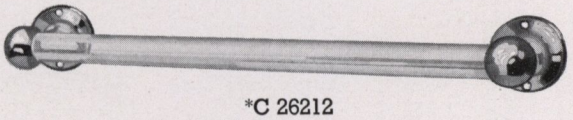
Length . . . . . **Inches** 18 24 30



C 26673

Double hook.

Projects 3 1/2 ins.



***C 26212**

Crystal or metal towel bar.

Size bar . . . . . **Inches**	3/4	3/4	3/4	1	1	1	1
Length . . . . . **Inches**	18	24	30	18	24	30	36

Can also be furnished with 5/8 or 3/4-inch square metal or glass bars.



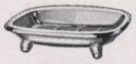
***C 26494**

Soap holder.



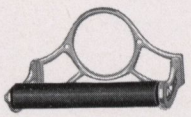
***C 26495**

Soap holder with removable glass or metal dish.



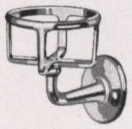
C 26510

Portable soap dish with solid rubber ball feet. If wanted with removable glass lining, specify C 26512.



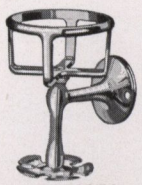
C 26601

Paper holder with wood roller.



***C 26304**

Tumbler holder.

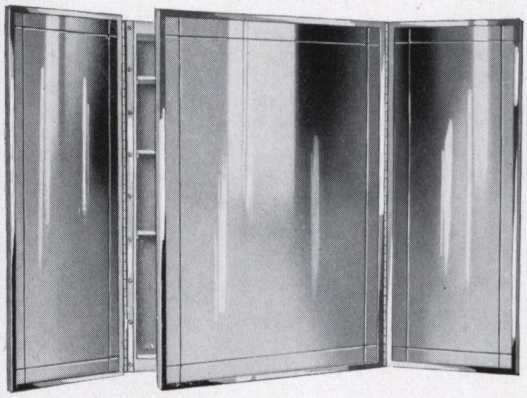


***C 26374**

Tumbler and tooth-brush holder.

*Items marked with an asterisk may be had with concealed screw attachment.

RECESS CABINETS

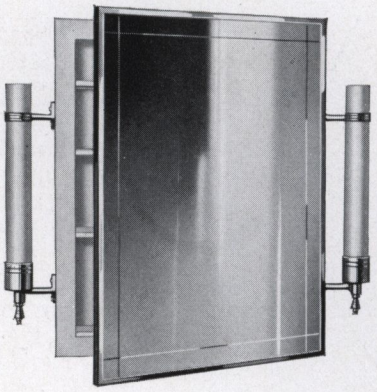


C 26885

Chromium plated brass frame on door and wings —first quality mirrors with polished mitre lines—three adjustable glass shelves and glass bottom shelf. Interior of cabinet and back of doors finished optional in white or color—mirrors furnished without mitre lines if desired.

C 26885

Center mirror	**Inches**	18x24	20x26
Wing mirrors	**Inches**	8x24	10x26
Rough opening	**Inches**	16x22x4	18x24x4
Shipping weight, approx.	**Pounds**	75	100



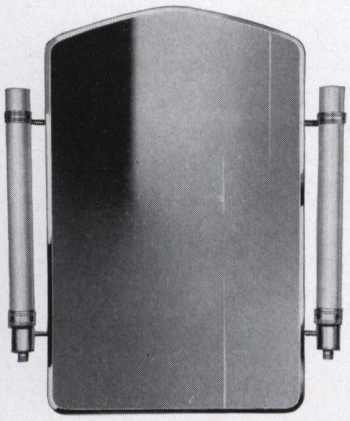
C 26888

"THE COPLEY"

Chromium plated brass door frame—first quality mirror with polished mitre lines — three adjustable glass shelves and glass bottom shelf—interior of cabinet and back of door finished optional in white or color — convenience outlet for curling iron or electric razor—tubular side lights with toggle switch (bulbs extra)—mirror furnished without mitre lines if desired.

C 26888

Mirror size	**Inches**	20x26
Rough opening	**Inches**	16 7/8x22 7/8x3
Shipping weight, approx.	**Pounds**	55



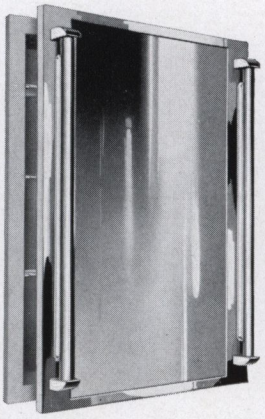
C 26886

"THE BOSTONIAN"

Stainless steel door frame—high grade mirror—adjustable glass shelves—razor blade slot—tooth-brush holder—cabinet and back of door finished in white baked-on enamel—tubular shade candles—cup attached to each side of cabinet containing a socket into which a clear T-8 light bulb is screwed, (bulb not furnished) which also supports the tubular shade candle of frosted glass.

C 26886

Mirror size	**Inches**	16x24	18x28
Rough opening	**Inches**	13 1/2x19 1/2x3 1/2	15 1/2x23 3/4x3 1/2
Adj. shelves		3	4
Shpg. weight, approx.	**Pounds**	31	42



C 26887

"THE LUMILINE"

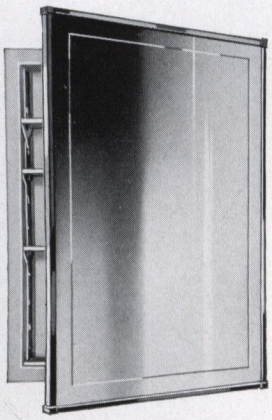
Chromium plated brass door frame—high grade mirror—three adjustable glass shelves—indirect tubular side lights with detachable chromium plated bulb shade—inside of cabinet and back of door finished in white baked-on enamel.

Light switch is not furnished on cabinet but can be included on special order.

Light bulbs not included, but can be furnished with 30 or 60 watt bulbs.

C 26887

Overall size	**Inches**	18x24
Rough opening	**Inches**	15 3/4x21 3/4x4
Shipping weight, approx.	**Pounds**	45



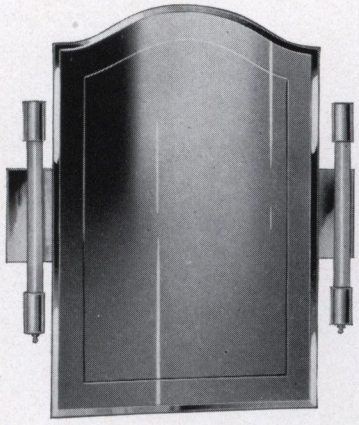
C 26891

"THE IMPERIALE"

Chromium plated brass door frame—first quality mirror with mitre lines—three adjustable glass shelves—interior of cabinet and back of door finished in white baked-on enamel.

C 26891

Mirror size	**Inches**	16x22	20x26	24x30
Rough opening	**Inches**	14 1/4x20 1/4	18 1/4x24 1/4	22 1/4x28 1/4
Depth	**Inches**	4 1/2	4 1/2	4 1/2
Shpg. wt., approx.	**Pounds**	60	70	80



C 26892

"FRAMED LINELITE"

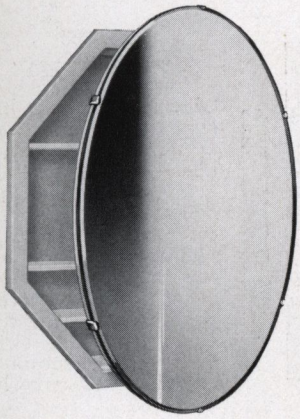
Chromium plated brass door frame—selected plate glass mirror — three adjustable glass shelves and glass bottom shelf—inside of cabinet and back of door finished in white baked-on enamel—tubular side lights (Mazda T-8 frosted lamps are extra)—convenience outlet for electrical appliances.

Can be furnished unframed if so ordered.

C 26892

Mirror size	**Inches**	18x24	18x26
Rough opening	**Inches**	15x21x3 1/2	15x21x3 1/2
Shipping weight, approx.	**Pounds**	42	44

RECESS CABINETS



C 26889

"THE CAPRICE" UNFRAMED

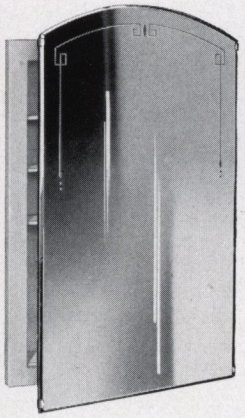
Circular plate glass mirror with beveled edge—stainless steel mirror clips on door—three glass shelves—octagonal steel cabinet finished in white baked-on enamel.

Furnished with 7/16" chromium plated frame when so ordered.

Can also be furnished with cabinet for rectangular wall opening 13 5/8 x 18 5/8 x 3 3/8. Specify C26890 ***The Rotunda,*** Mirror size, 25 inches diam., framed or unframed, 2 shelves.

C 26889

Mirror size, diameter ..... **Inches**	24
Rough opening, octagon—between sides ..... **Inches**	20
Shipping weight, approx. ..... **Pounds**	40



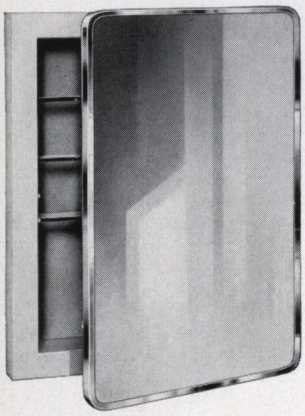
C 26896

THE "BERKSHIRE"

White enameled steel cabinet—high grade mirror with mitre design, fastened to door with mirror clips—continuous cadmium plated hinge—adjustable glass shelves—razor blade slot and toothbrush holder.

C 26896

Mirror Size Inches	Rough open. Inches	Adjustable Shelves	Ship. wt. Approx. Pounds
16x24	13 1/2 x 19 1/2 x 3 1/2	3	30
18x26	15 1/2 x 21 1/2 x 3 1/2	4	34
18x28	15 1/2 x 23 3/4 x 3 1/2	4	40
18x31	15 1/2 x 27 x 3 1/2	4	45



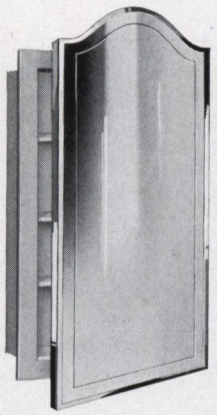
C 26908

THE "CHAMPLAIN"

Polished stainless steel door frame with rounded corners—adjustable glass shelves and glass bottom shelf—razor blade slot—toothbrush holder—cabinet and back of door finished in white baked-on enamel.

C 26908

Mirror Size Inches	Rough open. Inches	Adjustable Shelves	Ship. wt. Approx. Pounds
16x22	13 1/2 x 19 1/2 x 3 1/2	3	29
18x24	15 1/2 x 21 1/2 x 3 1/2	4	37
18x31	15 1/2 x 27 x 3 1/2	4	45
21x27	18 1/4 x 24 x 3 1/2	4	62



C 26895

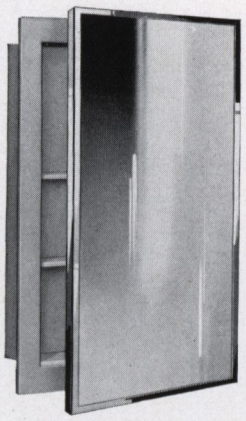
THE "FRAMED VENETIAN"

Chromium plated brass door frame—plate glass mirror with mitre lines—adjustable glass shelves and glass bottom shelf—interior of cabinet and back of door finished in white baked-on enamel.

For "UNFRAMED VENETIAN" cabinet specify C 26894.

C 26894 and C 26895

Mirror size ..... **Ins.**	16x24	18x26	18x30	20x32
Rough opening. Ins.	13x19x3 7/8	15x21x3 7/8	15x24x3 7/8	17x26x3 7/8
Adj. shelves	2	3	3	3
Shipping weight, approx. ..... **Lbs.**	30	38	42	48



C 26902

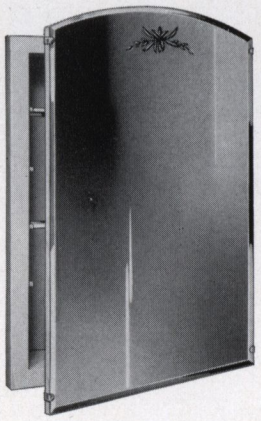
THE "FRAMED SIMPLICITY"

Chromium plated brass door frame—plate glass mirror—adjustable glass shelves with glass bottom shelf—cabinet and back of door finished in white baked-on enamel.

For "UNFRAMED SIMPLICITY" cabinet specify C 26903.

C 26902 and C 26903

Mirror Size Inches	Rough open. Inches	Adjustable Shelves	Ship. wt. Approx. Pounds
16x22	13x19x3 7/8	2	30
18x24	15x21x3 7/8	3	35
18x27 1/2	15x24x3 7/8	3	40
20x30	17x26x3 7/8	3	48



C 26911

THE "COTTAGE"

Frameless Venetian type of insert cabinet—mirror with floral engraving—two adjustable glass shelves—razor blade slot and toothbrush holder.

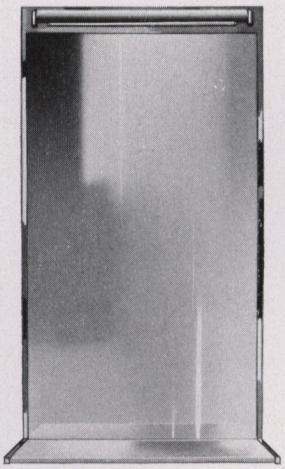
If wanted with highly polished stainless steel frame on mirror, specify The "SUFFOLK".

If wanted with black enameled frame on mirror, specify The "NASSAU".

C 26911

Mirror Size Inches	Rough open. Inches	Adjustable Shelves	Ship. wt. Approx. Pounds
15 1/2 x 23	13 5/8 x 18 5/8 x 3 1/2	2	20

POWDER ROOM MIRRORS

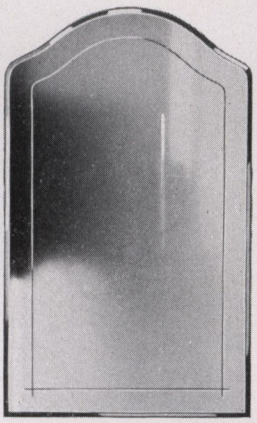


C 27262

Plate glass mirror with chromium plated frame, mirror shelf and Lumiline light fixture.

Size overall . . . . . **Inches** 20x38
Shelf . . . . . **Inches** 20x5¾

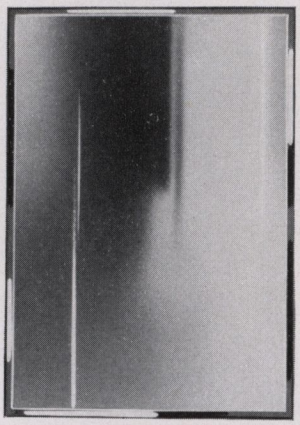
Light bulb not included, but can be furnished with 30 or 60 watt bulbs.



C 27264

Mirror, of French plate glass with chromium plated 7/16-inch frame.

Size overall . . . . . **Inches** 16x27 20x32

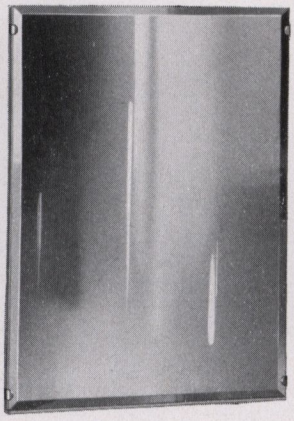


C 27270

Mirror, with ½-inch chromium plated frame.

Size . . . . . **Inches**

12x18	18x24	24x36
14x20	20x26	24x48
16x22	24x30	24x60



C 27271

C 27271

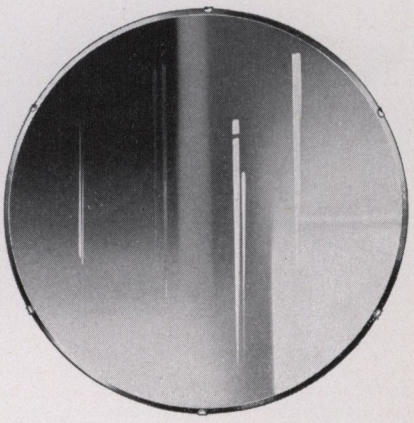
Mirror of plate glass; enameled steel back with polished stainless metal clips.

Size . . . . . **Inches** 12x16 16x22

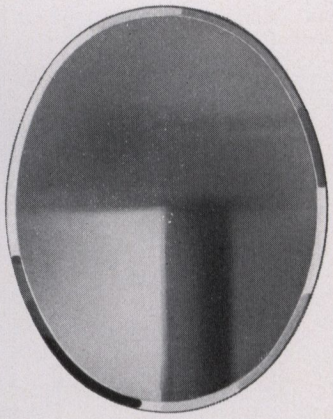
C 27273

Beveled edge plate glass circular mirror—stainless steel mirror clips—baked enameled steel back with wall hanger.

Diameter . . . . . **Inches** 24



C 27273



C 27274

C 27274

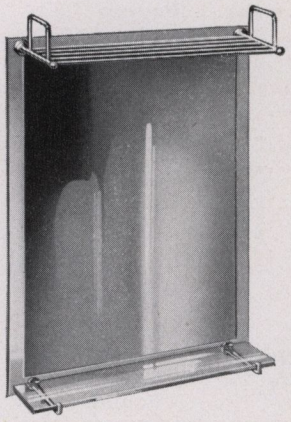
Oval mirror, with 7/16-inch chromium plated brass frame.

Size overall . **Inches** 12x18 14x20 18x24

C 27300

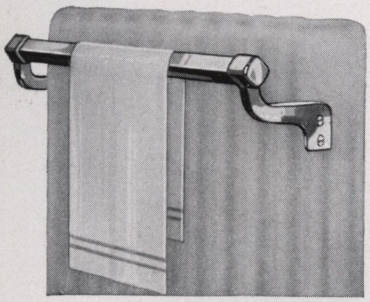
Mirror, with baked white enamel steel frame; crystal glass shelf with chromium plated brackets; chromium plated brass towel shelf.

Size overall . . . . . **Inches** 18x24
Mirror size . . . . . **Inches** 16x22



C 27300

RADIATOR TOWEL BAR

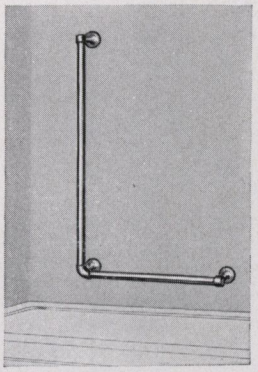


C 25030

Crane chromium plated towel bar for 10 or 15 section Crane radiators. Made of ⅞-inch square brass tubing with adjustable brackets for mounting at ends or between sections of radiator. Bar can be cut shorter to suit requirements.

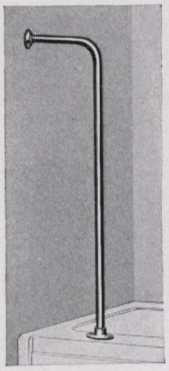
CRANE HAND RAILS AND GRAB BARS

Crane hand rails and grab bars are of heavy brass construction. They are designed in sizes and styles that offer a conveniently placed and practical support. The advantages are numerous. Recommend hand rails and grab bars with all Crane baths.



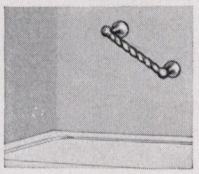
C 26292

¾-inch I.P.S. angle hand rail with brackets. Size 18x36 inches.



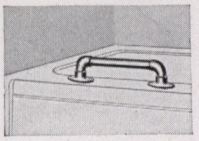
C 26296

¾-inch I.P.S. hand rail with supports. Size 12x42 inches.



C 26285

1-inch I.P.S. knurled grab bar with brackets. Length 12 inches.



C 26297

¾-inch I.P.S. hand rail with brackets. Length 12 inches.

BATHROOM CHAIR, STOOLS AND TOWEL HORSES



C 27123

Chromium plated tubular bathroom chair. Seat and back are enameled in white, black or any Crane color. (See color chart, page III.)

Height overall	**Inches**	30
Width of seat	**Inches**	15
Depth of seat	**Inches**	13
Shpg. weight	**Pounds**	18



C 27124

Chromium plated brass tubular bath stool. Top enameled in white, black or any Crane color. (See color chart, page III.)

Height	**Ins.**	15¾
Dia. of seat	**Ins.**	12¾
Shpg. wt.	**Lbs.**	7



C 27125

Modern design, very sturdy chromium plated brass tubular bath stool. Waterproof sheet covered top in white, black or any Crane color. (See color chart, page III.)

Height	**Ins.**	15½
Dia. of seat	**Ins.**	13
Shpg. wt.	**Lbs.**	16



C 27131

Chromium plated tubular towel horse. Made of heavy gauge tubing, all joints brazed, very rigid. Rubber feet.

Height	**Inches**	30½	28
Width	**Inches**	26	20
Depth	**Inches**	7	7
Shpg. weight	**Pounds**	12	7½

Note: 28-inch size, does not have bottom shelf.

BATHROOM SCALES



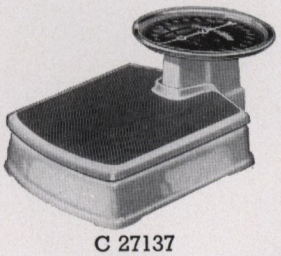
C 27138

Model No. 106—Enamel finish.
Model No. 116—All chromium.
Capacity . . . . . **Pounds** 250
Approx. shpg. wt. . . **Pounds** 38



C 27140

Model No. 134—Enamel finish.
Model No. 132—With chromium plated platform.
Capacity . . . . . **Pounds** 300
Approx. shpg. weight . . . . . **Pounds** 22

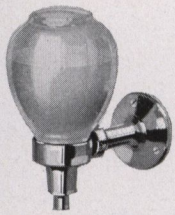


C 27137

Model No. 140—Enamel finish.
Model No. 135—With chromium plated platform.
Capacity . . . . . **Pounds** 250
Approx. shpg. weight . . . . . **Pounds** 22

Can be furnished in white, green, orchid, blue, ivory, pink or black.

LIQUID SOAP FIXTURES



C 27406



C 27407

Liquid soap fixtures with glass container, brass plunger and brass bracket.

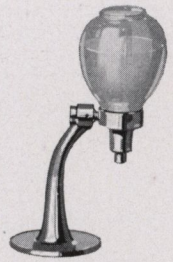


C 27409

Liquid soap fixture with glass container, brass spout and self-closing push button. For use through faucet punchings of lavatories.

Can be refilled through top by removing push button cap.

Can also be furnished with long shank, for lavatories up to 4½ inches thick.



C 27410

Liquid soap fixture with glass container, brass plunger and brass support for attaching to top of lavatories.



C 27420

C 27420

Semi-cylindrical liquid soap storage tank with float gauge, strainer, ⅜-inch discharge pipe with stop and wall supports.

Tanks made of rust-resisting metal with baked-on white or gray enamel finish.

DIMENSIONS

Capacity	**Gallons**	1	2	3	5	10
Height	**Inches**	11¼	14½	16	18⅝	30
Width	**Inches**	7	8½	10⅛	12⅞	15
Extension	**Inches**	4¼	5⅛	6	7⅜	7½
Shpg. weight	**Pounds**	2½	3	4	7¼	9¼

Note: This tank can be furnished in polished monel metal at additional cost.



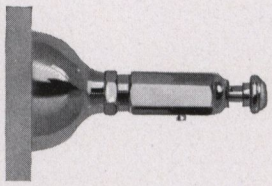
C 27425

C 27425

Vitreous china liquid soap storage tank with calibrated gauge indicating contents in quarts, ⅜-inch I.P. outlet spud.

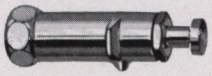
DIMENSIONS

Capacity	**Gals.**	1¼	2	5
Height overall	**Inches**	10½	14½	15½
Width overall	**Inches**	14	14	18½
Depth	**Inches**	5	5	7½
Shipping wt., approx.	**Lbs.**	5	7	15



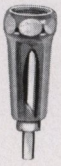
C 27430

⅜-inch chromium plated soap valve for concealed piping with indexed push button and metal escutcheon.



C 27433

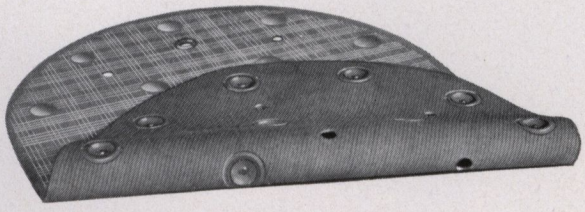
⅜-inch soap valve for exposed piping with indexed push button.



C 27436

⅜-inch push-up soap valve for exposed piping.

"FOOTSURE" SAFETY BATHTUB MAT



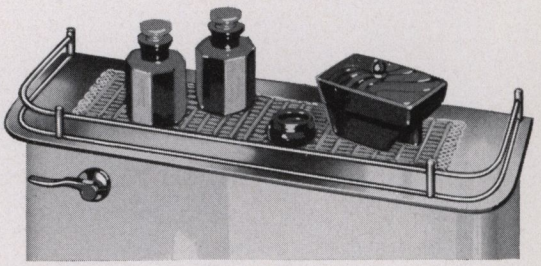
C 27445

The ***Footsure*** Safety Bathtub Mat is a sanitary, odorless rubber rug with patented suction cups on the under side, at proper intervals. These cups are fashioned after the manner of the tentacles of the octopus—they operate automatically when stepped upon, and so ***Footsure*** adheres tightly to smooth, wet surfaces and provides a safe foothold.

Furnished in the following colors: Green, Orchid, Blue, Maize and White.

		"Standard Model" Bathtub Mat	"DeLuxe Model" Bathtub and Shower Mat
Size	**Inches**	16x24	18x32

COMBINATION CLOSET TANK COVER AND SAFETY SHELF



C 27460

The safety shelf is made of brass, heavily chromium plated and stays everlastingly bright. In the event a closet tank cover is broken and is found difficult to replace, the safety shelf makes an ideal replacement. It is adjustable and will fit 6 or 8 gallon tanks.

Criterion Fittings



ADVANCE INFORMATION

DECEMBER 1939

A WORD ABOUT "CRITERION"

OBJECTIVE

The new line of *Criterion* Brass, introduced by Crane Co., represents the first attempt to harmonize fittings to plumbing fixtures. With the development of matched bathroom fixtures in the Crane panel design, a set of matched fittings becomes the last word in modern bathroom styling. But in designing *Criterion,* unique beauty was not the only governing factor. Functional design also received full consideration and, as a result, *Criterion* brass means added convenience as well as added beauty to the bathroom.

DESIGN

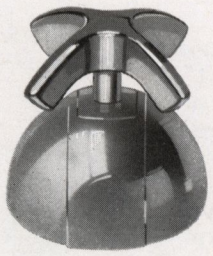
The basic design of *Criterion* is simple, suitable of incorporation in every type of fitting. *Criterion* will never go out of style, yet it is extremely modern in design and will harmonize with any bathroom. The escutcheon on *Criterion* fittings is hemispherical with a raised panel. Thus, the panel design found in recently designed Crane lavatories, closets and bathtubs is again employed.

The handles have been curved to complement the curve in the escutcheon thus not only giving a more unified design but actually increasing the ease of operation. Whether the valve is open or closed, the design of the handle is so balanced that its beauty is unaffected. This feature is of great importance in bath valves where the relationship of the handle to the escutcheon varies with the roughing-in.

The *Criterion* line is unified in design—all items are distinctly *Criterion*—all have the carefully proportioned free-flowing lines, the paneled hemispherical escutcheon and the gracefully curved handles.

QUALITY FEATURES

Criterion Brass is truly, to quote Webster, "a standard by which others are to be judged." In this new line, Crane Co. has incorporated the features of quality, good workmanship and sound engineering that have made Crane products famous for more than 80 years.



CRANE

"CRITERION" LAVATORY TRIMMINGS

Temporary Price Information

"SECURO" COMBINATION SUPPLY & WASTE

"Criterion" Design fixture will be furnished at the same price as present L9 or L11 trim and can be fitted to any lavatory illustrated or listed with "L" trimmings.

"SECURO" WASTES

Please refer to page 8-2. "Criterion" Design will be furnished at the same price as present "Securo" waste and fitted to any lavatory illustrated or listed with "R" trimmings.

SPECIAL LAVATORIES FITTED WITH "CRITERION" DESIGN TRIM

	Inches	White	Colored
C 167 "DREXEL", Complete (less supplies and trap).....	22 x 18	$50.00	$61.60
	27 x 21	58.65	76.75
C 168 "DREXEL", Complete (less supplies and trap).....	22 x 18	47.90	59.50
	27 x 21	56.50	74.60

C 281 "CORONET" Lavatory (Priced on P2-2) Add $2.20

C 32080 and C 32082 Ice Water Combinations - Price on Appl.

C 32180 "Criterion" Unit Fixture - Price on Appl.

LEGS and TOWEL BARS

C 33668 Legs with Towel Bars...Pair $14.95

C 33672 Legs less Towel Bars...Pair 7.30

"CRITERION" BATH TRIMMINGS

Temporary Price Information

All Baths may be fitted with "Criterion" Design trimmings at additional cost as follows:

B91 and B93 (Deviator Shower Fixture, Accesso Waste, Rod, Curtain and Hooks).....	Add-Corner	$10.00
	Recess	10.75
B90 (Same, with Connected Waste and Overflow)....Add-	Corner	9.75
	Recess	10.50
B27 (Overrim Spout and Accesso Waste).....Add		9.65
B26 (Same, with Connected Waste and Overflow).....Add		9.30

SHOWERS

C4150 CRITERION (Mixing Valve)....	$25.45
C4155 Same, with Stops.....	32.70
C4285 CRITERION (Two Valve).....	15.55

CRANE PLUMBING BRASS

The Brass Plumbing Fixtures shown in this Catalogue, representing but a small portion of the complete Crane line, embody the Crane standard of quality that has identified fixtures of our manufacture for many years.

Crane plumbing brass comes in two lines: (1) the first line made up of ***Improved Agilis, Improved Telsa*** and ***Improved Triumph*** items and (2) the competitive line made up of ***Rival*** items. The basic difference between these two lines is in the weight—the first line being heavier. There are additional features of difference and of likeness which should be considered:

Exposed faucets of the first line have renewable seats and swivel discs, and are fitted with the ***Newsleeve*** units. Exposed faucets of the ***Rival*** line have integral seats, solid discs, and stem threads in the body.

In the built-in valves and faucets, both lines have renewable centerpieces for stem threads, renewable seats and swivel discs—the first line, of course, being of much heavier construction.

INTERCHANGEABILITY OF HANDLES AND ESCUTCHEONS

In keeping with the policy of interchangeability of parts, trimmings for Crane fixtures are also made so as to interchange with other trimmings of the same class and size. For example, a Four-Arm Handle for a Bath or Lavatory Valve can interchange with a Five-Ball Handle or with any of the Ornamental Designs. Escutcheons are also interchangeable, the china escutcheons being easily interchanged with plain metal or with ornamental designs.

DESIGN

The convenience, attractive appearance and durability of Crane Plumbing Brass make an emphatic appeal to every householder. Extra heavy design and construction in all fixtures, large flats on hexagons and the absence of sharp edges and dirt-collecting grooves are visible assurance of their perfection. Operating parts, including seats, of all Crane built-in valves may be renewed from the front without removing valve bodies from wall.

TRIMMINGS

Crane Co. offers in addition to its line of plain trimmings, three Ornamental Designs: Design 40 Octagonal, Design 45 Fluted and Design 50 Crystal. These trimmings are worthy companions to the modern and colored fixtures so popular at the present time.

FINISH

Although heavy Nickel Plating provides a lasting finish, Chromium Plating with its glistening and untarnishing finish and surprising wearing qualities has become more popular. Chromium Plated Fittings are easily kept as bright as the ware on which they are installed. An occasional wiping with a damp cloth leaves them shining. Where fixtures in color are specified, Chromium Plated Trimmings are recommended.

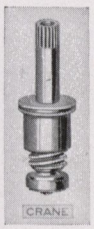
To adapt Crane fixtures, and especially those with ornamental trimmings, to various decorative treatments, Crane Co. is also prepared to furnish trimmings with Brushed Finish Silver and Brushed Finish Gold Plating. Gold and Silver finishes are particularly effective when applied to the more exclusive fixtures, although they may be applied to the entire line.

CRANE LAVATORY FAUCETS

"NEWSLEEVE" TRIMMING UNITS

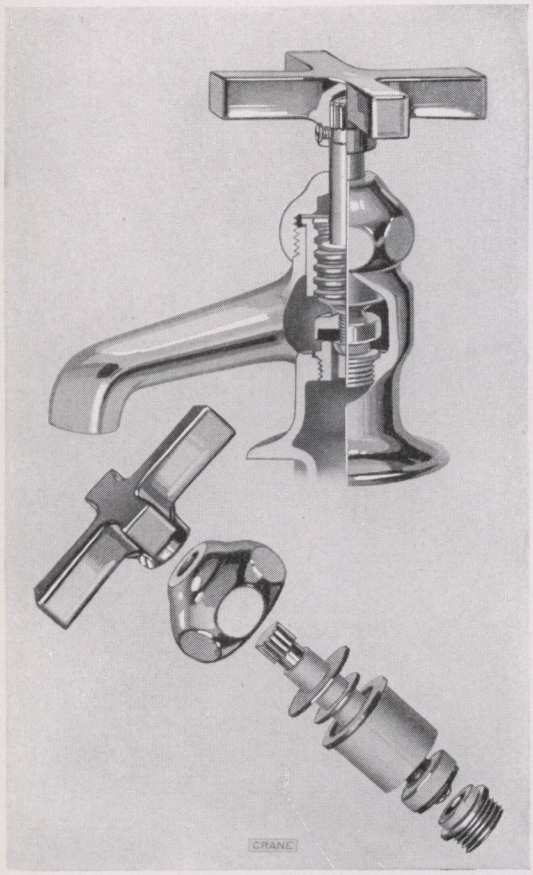
All Crane ***Improved Telsa, Improved Agilis*** and ***Improved Triumph*** sink and lavatory faucets are furnished with ***Newsleeve*** trimming units and renewable seats. ***Newsleeve*** units are made with internal stem threads in the sleeve, permitting replacement of the entire operating unit without removing faucet from the fixture.

These trimmings are interchangeable in either type of faucet body—making it possible to change faucets from regular compression, with lever or four-ball handle, to self-closing merely by the replacement of the trimming unit.



Newsleeve trimming unit.

"IMPROVED TELSA" AND "IMPROVED AGILIS" FAUCETS



Sectional View of ***Improved Telsa*** Lavatory Faucet showing ***Newsleeve*** Trimming Unit.

EXTRA HEAVY PARTS FOR GREATER STRENGTH

Forged brass all metal handle. Close texture of metal and absence of sand holes and pits, give handle a smooth, even surface. Broachings provide for a more exacting handle fit. Set screw fits into groove in stem, assuring a permanently tight handle.

Heavy brass stem, .40″ diameter. Large diameter and long, accurately machined stem threads insure long life.

Stuffing Box. Large capacity, with flat surfaces on hexagon. Generous supply of special graphite treated cloth inserted ring packing.

"NEWSLEEVE" TRIMMING UNIT

Newsleeve* trimming unit.** Internal stem threads in sleeve permit replacement of entire operating unit without removing valve body from lavatory. Seat is separate from the ***Newsleeve unit and need not be disturbed.

Units are interchangeable. ***Newsleeve*** units in ***Improved Telsa*** and ***Agilis*** faucets and ***Improved Triumph*** trimming units are interchangeable and can be used in either type.

Encased composition disc. Disc is partially encased in a disc holder which prevents it becoming distorted. Discs are scientifically treated under direction of our Research Laboratories.

Renewable seats. Seats are renewable and can easily be removed for replacement.

MODERN AND SANITARY DESIGNS

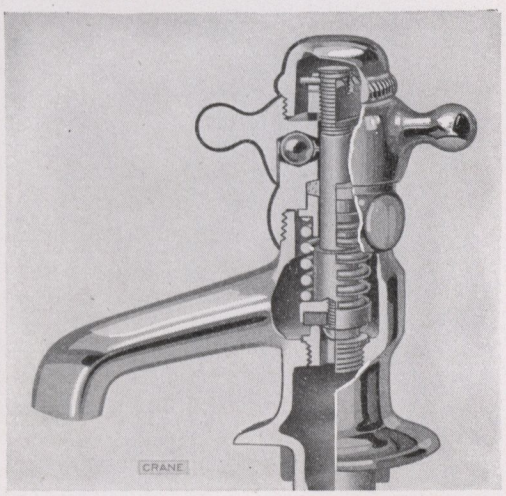
Heavy cast brass body. Modern and beautifully designed cast brass body.

Raised spout. Spout is raised above rim of lavatory. This allows space for cleaning and also prevents back siphonage through the spout into the supply line.

"IMPROVED TRIUMPH" BALL-BEARING SELF-CLOSING FAUCETS

The Crane ***Improved Triumph*** lavatory faucet is the ball-bearing self-closing type. The ball-bearings operate on runways of forged brass which have a smooth surface and will withstand years of hard use. Three phosphor bronze lifting balls in a brass cage make a three-point contact, providing an even easy lift of the disc and a positive closing action. This reduces wire cutting and increases the life of the seat. Wear is easily taken up with a castellated regulating nut, which allows for simple, yet ample adjustment. The lifting spring is stainless steel. Its high tension assures a positive closing action.

Improved Triumph faucets are furnished with renewable trimming units similar to ***Newsleeve*** units except made without a sleeve. They are also interchangeable, either type fitting into the body castings of ***Improved Triumph, Improved Agilis***, and ***Improved Telsa*** faucets.



Sectional View of ***Improved Triumph*** Lavatory Faucet.

"TELSA" COMPRESSION SINK FAUCETS

Concealed Stuffing Box—Non-Splashing Feature—Swivel Disc Holder



C 31102

Male Shoulder; Tee Handle.

Size.....**Inches** ½ ¾ 1

Rough, Fin. Brass, Nickel or Chromium Plated.

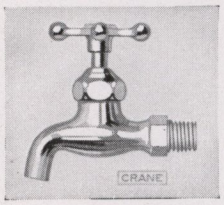


C 31103

Hose; Male Shoulder; Tee Handle.

Size.....**Inches** ½ ¾ 1

Rough, Fin. Brass, Nickel or Chromium Plated.



C 31106

Male Shoulder; Four-Ball All-Metal Indexed Handle.

Size.....**Inches** ½ ¾

Nickel or Chromium Plated.

For Hose End, Specify **C 31107.**



C 31140

Female; Solid Flange; Tee Handle.

Size.....**Inches** ½ ¾

Fin. Brass, Nickel or Chromium Plated.

For Hose End, Specify **C 31141.**



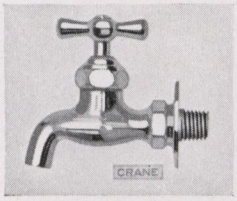
C 31144

Female; Solid Flange; Four-Ball All-Metal Indexed Handle.

Size.....**Inches** ½ ¾

Nickel or Chromium Plated.

For Hose End, Specify **C 31145.**



C 31160

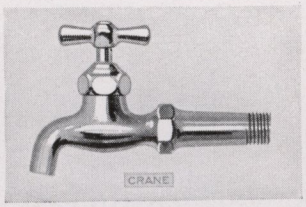
Male; Solid Flange; Tee Handle.

Size.....**Inches** ½ ¾

Nickel or Chromium Plated.

For Hose End, Specify **C 31161.**

If with Four-Ball All-Metal Indexed Handle, Specify—**C 31164**—Plain; **C 31165**—Hose End.



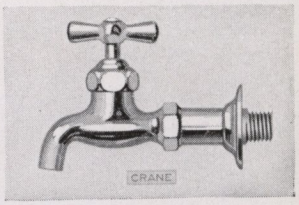
C 31180

Male; Taper Shank; Tee Handle.

Size.....**Inches** ½ ¾

Rough, Fin. Brass, Nickel or Chromium Plated.

For Hose End, Specify **C 31181.**



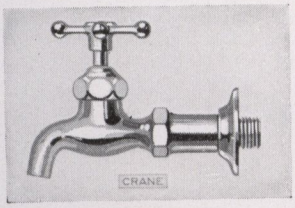
C 31220

Male; Set Screw Flange; Tee Handle.

Size.....**Inches** ½ ¾

Fin. Brass, Nickel or Chromium Plated.

For Hose End, Specify **C 31221.**



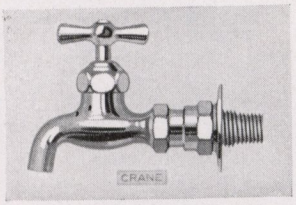
C 31224

Male; Set Screw Flange; Four-Ball All-Metal Indexed Handle.

Size.....**Inches** ½ ¾

Nickel or Chromium Plated.

For Hose End, Specify **C 31225.**



C 31240-N

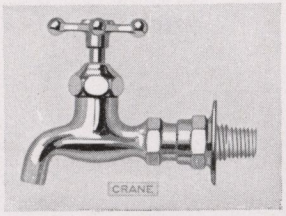
"IMPROVED TELSA"

Male; Extension Screw Flange; Tee Handle; ***"Newsleeve"*** Trimming Unit, Renewable Seat.

Size.....**Inches** ½ ¾

Fin. Brass, Nickel or Chromium Plated.

For Hose End, Specify **C 31241-N.**



C 31244-N

"IMPROVED TELSA"

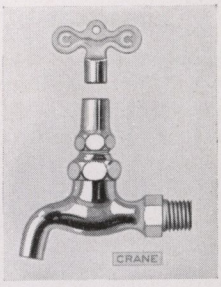
Male; Extension Screw Flange; Four-Ball All-Metal Indexed Handle; ***"Newsleeve"*** Trimming Unit; Renewable Seat.

Size.....**Inches** ½ ¾

Nickel or Chromium Plated.

For Hose End, Specify **C 31245-N.**

If with Exposed Stuffing Box, Specify **C 31254-N**—Plain; **C 31255-N**—Hose End.



C 31298

Male Shoulder; Lockshield for Loose Key.

Size.....**Inches** ½ ¾

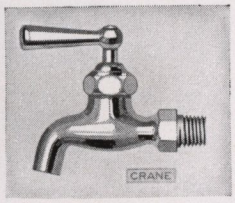
Fin. Brass, Nickel or Chromium Plated.

For Hose End, Specify **C 31299.**

"AGILIS" QUICK COMPRESSION SINK FAUCETS

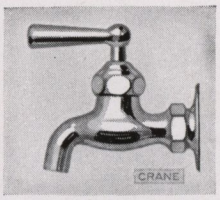
With Metal Lever Handle

Concealed Stuffing Box—Non-Splashing Feature—Swivel Disc Holder



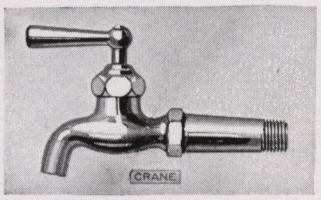
C 31332

Male Shoulder.
Size.....**Inches** ½ ¾
Finished Brass, Nickel or Chromium Plated.
For Hose End, Specify **C 31333.**



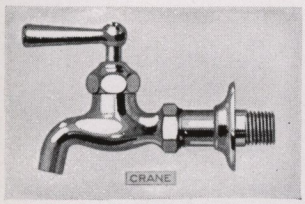
C 31342

Female; Solid Flange.
Size.....**Inches** ½ ¾
Nickel or Chromium Plated.
For Hose End, Specify **C 31343.**



C 31362

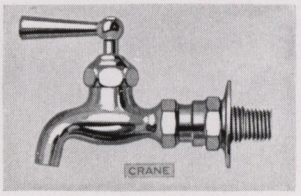
Male; Taper Shank.
Size.....**Inches** ½ ¾
Nickel or Chromium Plated.
For Hose End, Specify **C 31363.**



C 31382

C 31382

Male; Set Screw Flange.
Size.....**Inches** ½ ¾
Nickel or Chromium Plated.
For Hose End, Specify **C 31383.**



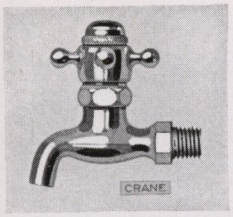
C 31392-N

C 31392-N

"IMPROVED AGILIS"
Male; Extension Screw Flange; ***"New-sleeve"*** Trimming Unit; Renewable Seat.
Size.....**Inches** ½ ¾
Nickel or Chromium Plated.
For Hose End, Specify **C 31393-N.**

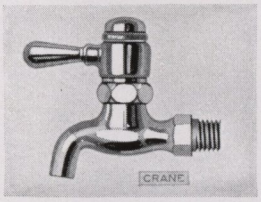
"IMPROVED TRIUMPH" SELF-CLOSING SINK FAUCETS

Ball-Bearing—Forged Bearing Race—Three Lifting Balls in Retainer
Stainless Steel Spring—Non-Splashing Feature



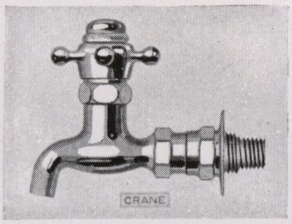
C 31550-A

Male Shoulder; Four-Ball Handle with Metal Cap; Renewable Trimming Unit. Size—½ inch.
Nickel or Chromium Plated.



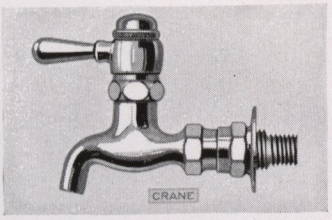
C 31554-A

Male Shoulder; Metal Lever Handle with Metal Cap; Renewable Trimming Unit. Size—½ inch.
Nickel or Chromium Plated.



C 31570-A

Male; Extension Screw Flange; Four-Ball Handle with Metal Cap; Renewable Trimming Unit; Renewable Seat. Size—½ inch.
Nickel or Chromium Plated.



C 31574-A

Male; Extension Screw Flange; Metal Lever Handle with Metal Cap; Renewable Trimming Unit; Renewable Seat. Size—½ inch.
Nickel or Chromium Plated.

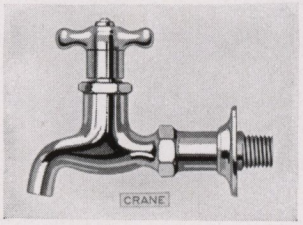
"BOSTON" SELF-CLOSING SINK FAUCETS

Cam Action—Forged Cam—Forged Center Piece—Bronze Spring
Non-Splashing Feature



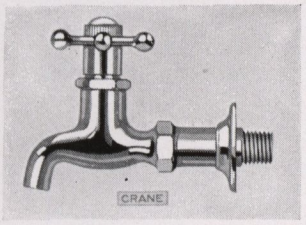
C 31581

Male Shoulder; Tee Handle. Size—½ inch.
Finished Brass, Nickel or Chromium Plated.
For Compression Faucet to match, Specify **C 31601.**



C 31585

Male; Set Screw Flange; Tee Handle. Size—½ inch.
Nickel or Chromium Plated.
For Compression Faucet to match, Specify **C 31605.**



C 31586

Male; Set Screw Flange; Four-Ball China Indexed Handle. Size—½ inch.
Nickel or Chromium Plated.
For Compression Faucet to match, Specify **C 31606.**

BRASS GOODS

CRANE GROUND KEY FAUCETS

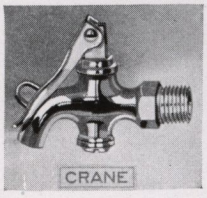


No. 800
C 31622
Plain
Size.....**Inches**
⅜, ½, ¾, 1, 1¼, 1½, 2

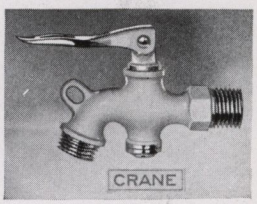


No. 801
C 31623
Hose End
Size.....**Inches**
½, ¾, 1, 1¼, 1½, 2

LOCK LEVER OIL FAUCETS



C 31690
Plain
Size.....**Inches**
⅝, ¾, 1, 1¼, 1½, 2

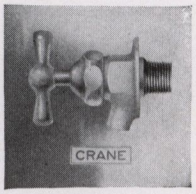


C 31692
Hose End
Size.....**Inches**
⅝, ¾

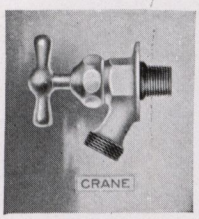
The above faucets can be furnished in—rough or finished brass

"TELSA" COMPRESSION LAUNDRY TUB FAUCETS

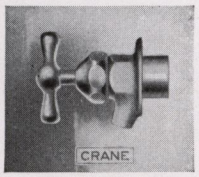
CONCEALED STUFFING BOXES—SWIVEL DISC HOLDERS



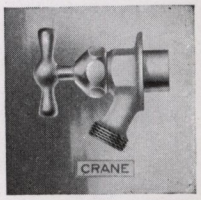
C 31710
Male, plain
Size.....**Inch** ½



C 31711
Male, hose end
Size.....**Inch** ½



C 31730
Female, plain
Size....**Inches** ½, ¾



C 31731
Female, hose end
Size....**Inches** ½, ¾

The above faucets can be furnished in—rough or polished, chromium or nickel plate.

DOUBLE LAUNDRY TUB FAUCETS



C 31742

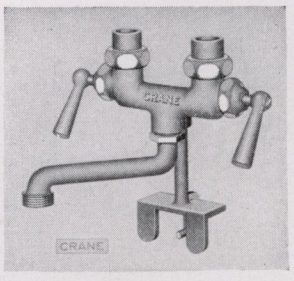
Crane rough nickel plate ***Agilis*** double laundry tub faucet; 7½-inch swinging spout with hose end; for shelf type laundry tubs; bottom supply female flanged union inlets for ½-inch iron pipe.

C 31746-S

Crane rough nickel plate ***Agilis*** double laundry tub faucet; 6-inch swinging spout with hose end; clamp for attaching to single or double compartment alberene or composition laundry tubs; female union supply connections for ½-inch iron pipe.

SPECIFY:

C 31748-S, if above faucet is required with a 16-inch swinging spout for three compartment alberene stone or composition tubs.



C 31746-S

C 31746-E, if above faucet is required with a 6-inch spout and clamp for single or double compartment flat rim enameled tubs.

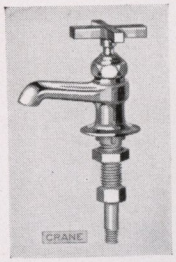
C 31746-P, if above faucet is required with a 6-inch spout and clamp for porcelain and vitreous china tubs.

LAVATORY FAUCETS



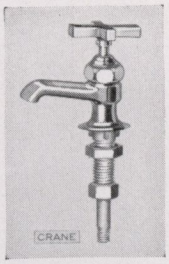
C 31804

Crane ***Improved Telsa*** compression faucet with renewable seat, ***Newsleeve*** trimming unit and indexed four-ball all metal handle.



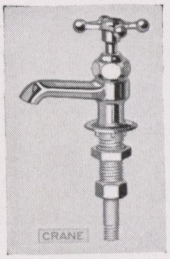
C 31806

Crane ***Improved Telsa*** compression faucet with renewable seat, ***Newsleeve*** trimming unit and indexed square arm all metal cross handle.



C 31843-RN

Crane ***Improved Telsa Jr.*** compression faucet with ***Newsleeve*** trimming unit, renewable seat and indexed square arm all metal cross handle.



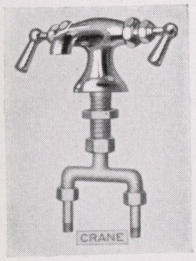
C 31845-RN

Crane ***Improved Telsa Jr.*** compression faucet with ***Newsleeve*** trimming unit, renewable seat and indexed four-ball all metal handle.



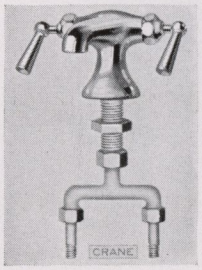
C 31851

Crane ***Rival*** compression faucet with indexed four-ball all metal handle.



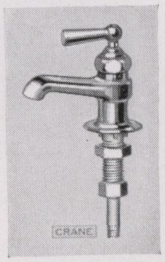
C 31902-N

Crane ***Improved Agilis*** compression double faucet with ***Newsleeve*** trimming units, exposed stuffing boxes, renewable seats, and indexed metal lever handles.



C 31906-N

Crane ***Improved Agilis*** compression double faucet with ***Newsleeve*** trimming units, renewable seats, and indexed metal lever handles.



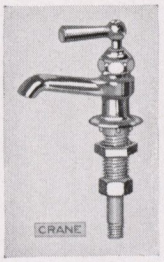
C 31920

Crane ***Improved Agilis*** compression faucet with renewable seat, ***Newsleeve*** trimming unit, and indexed metal lever handle.



C 31932-RN

Crane ***Improved Agilis Jr.*** quick compression faucet with ***Newsleeve*** trimming unit, renewable seat and indexed metal lever handle.



C 31938

Crane ***Rival*** quick compression faucet with indexed metal lever handle.



C 31952-N

Crane ***Improved Agilis*** quick compression faucet with ***Newsleeve*** trimming unit, renewable seat and indexed metal lever handle. Furnished in pairs. L.H. indexed "H," R.H. indexed "C."



C 31955

Crane ***Metro*** slow-closing self-closing faucet with indexed metal push button and adjustable regulating screw.



C 31960-R

Crane ***Improved Triumph*** ball bearing self-closing faucet with renewable seat, renewable trimming unit and four-ball metal handle For compression faucet to match, specify **C 31990-R *Improved Duo.***



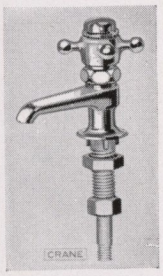
C 31964-R

Crane ***Improved Triumph*** ball bearing self-closing faucet with renewable seat, renewable trimming unit, and metal lever handle.



C 31966-R

Crane ***Improved Triumph*** ball bearing self-closing faucet with renewable seat, renewable trimming unit, and metal crown handle.



C 31970-R

Crane ***Improved Triumph Jr.*** ball bearing self-closing faucet with renewable trimming unit, and four-ball metal handle.
For compression faucet to match, specify **C 31992-R *Duo Jr.***



C 31974-R

Crane ***Improved Triumph Jr.*** ball bearing self-closing faucet with renewable trimming unit and metal lever handle.



C 31976-R

Crane ***Improved Triumph Jr.*** ball bearing self-closing faucet with renewable trimming unit and metal crown handle.

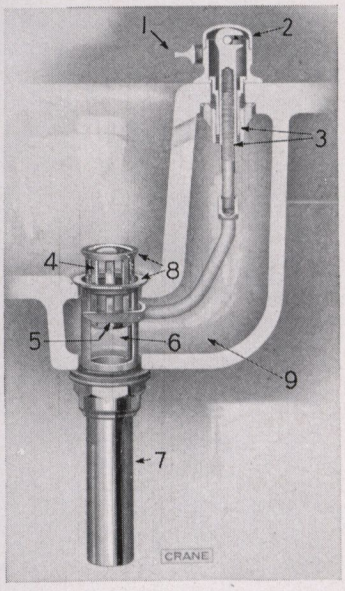


C 31984

Crane ***Boston*** cam action self-closing faucet with four-ball china indexed handle.
For compression faucet to match, specify **C 31998.**

"LEVER ACTION SECURO" QUICK DRAINING LAVATORY WASTE

(PATENTED)

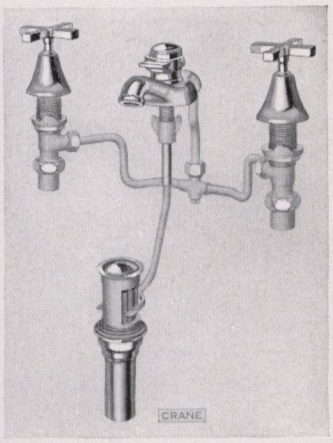


Crane ***Lever Action Securo*** quick draining lavatory waste.

The Crane ***Lever Action Securo*** quick draining lavatory waste is the latest of the Crane line introduced to the trade. Typical of Crane engineering, it operates as simply and unfailingly as a lever. All parts are machined to the close limits and with the care for which Crane is known, still the waste is so designed that it is impossible for any of the parts to bind. The waste plug is directly controlled by the lift rod, eliminating the usual toggle connections which wear quickly and require frequent adjusting. The unusually high lift and the large slots in the side of the plug assure quick draining of the basin, and the plug may be removed from the basin by a quarter turn and pull, leaving the outlet accessible for cleaning. If desired, non-removable waste plug can be furnished. Features are as follows:

1. Lever action lift mechanism—positive in action.
2. Entire lift mechanism accessible by unscrewing cap.
3. Adjusted for variation in ware when installed. No further adjustments necessary.
4. High lift and large slots in side of waste plug produce rush of waste water which carries suspended waste particles through the waste. Basin drains in approximately six seconds and is left in a sanitary condition.
5. A simple twist and pull of metal stopper disengages it from the lift rod. It may then be removed from basin, leaving outlet accessible for removal of lint and other waste particles.
6. Extra large unobstructed outlet.
7. Tailpiece furnished 1¼ or 1½ inch O. D. as specified.
8. Large metal to metal seat, ground in, assures perfect fit.
9. Operating through overflow, exposes fewer metal parts to be kept clean and allows trap to be placed higher, which adds to the appearance of the complete lavatory.

METAL SPOUT



C 32110

Crane ***Lever Action Securo*** metal spout combination supply and quick draining waste fixture with renewable seats, indexed square-arm all-metal handles, metal escutcheons and female union supply connections for ⅜-inch and ½-inch iron pipe.

If with slip joint supply connections, specify **C 32109.**

For other styles of trimmings specify the following catalogue numbers:

C 32107-A. Five-ball all-metal indexed handles, metal escutcheons, iron pipe connections.

C 32106-A. Five-ball all-metal indexed handles, metal escutcheons, slip joint connections.

C 32115-A. Indexed metal lever handles, metal escutcheons, iron pipe connections.

C 32114-A. Indexed metal lever handles, metal escutcheons, slip joint connections.

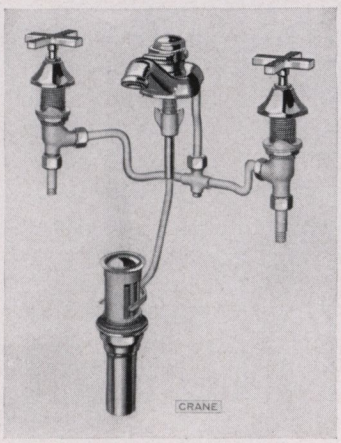
C 32110 Design 40. Octagonal cross handles, spout and escutcheons, iron pipe connections.

C 32115-A Design 40. Octagonal lever handles, spout and escutcheons, iron pipe connections.

C 32117. ***Rival*** valves, metal cross handles, octagonal escutcheons, slip joint connections.

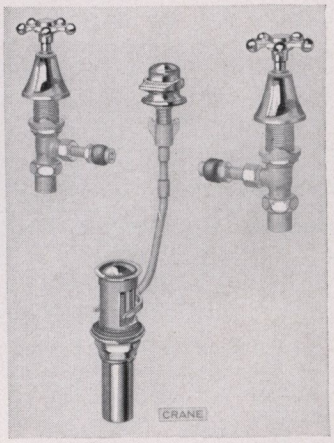
C 32118. Same as **C 32117**, except with I. P. tailpieces.

METAL SPOUT WITH "RIVAL" VALVES



C 32118

INTEGRAL SPOUT



C 32127

Crane ***Lever Action Securo*** integral spout combination supply and quick draining waste fixture with renewable seats, five-ball all-metal indexed handles, metal escutcheons and female union supply connections for ⅜-inch and ½-inch iron pipe.

If with slip joint supply connections, specify **C 32126.**

For other styles of trimmings specify the following catalogue numbers:

C 32121. Indexed square arm all-metal cross handles, metal escutcheons, iron pipe connections.

C 32120. Indexed square-arm all-metal cross handles, metal escutcheons, slip joint connections.

C 32135. Indexed metal lever handles, metal escutcheons, iron pipe connections.

C 32134. Indexed metal lever handles, metal escutcheons, slip joint connections.

C 32121 Design 40. Octagonal cross handles and escutcheons, iron pipe connections.

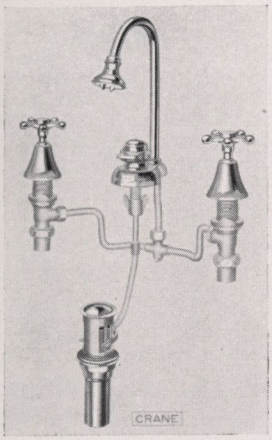
C 32135 Design 40. Octagonal lever handles and escutcheons, iron pipe connections.

Valves having slip joint connections are suitable for 7/16-inch and ½-inch O. D. tubing.

Lever Action Securo fixtures are furnished for Crane lavatories only and require special lavatory cutting. Integral spout fixtures are not furnished for enameled lavatories. Wastes are furnished with 1¼-inch or 1½-inch O. D. tailpiece, as specified.

Ornamental trimmings are chromium plated, brushed finish silver plated or brushed finish gold plated.

LAVATORY SUPPLY AND WASTE FIXTURES
(PATENTED)



C 32219

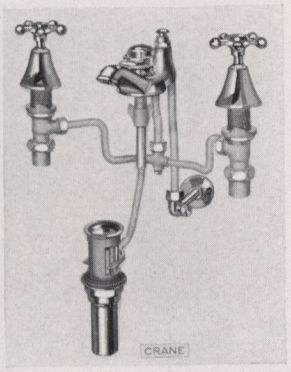
C 32219

Crane chromium plated ***Lever Action Securo*** combination gooseneck spout supply and quick draining waste fixture with renewable seats, five-ball all-metal indexed handles, metal escutcheons, gooseneck spout with ***Refreshor*** easy-clean spray head, and female union supply connections for ⅜-inch and ½-inch iron pipe.

If with gooseneck spout with plain nozzle, specify **C 32221.**

C 32249-A

Crane chromium plated ***Lever Action Securo*** metal spout combination supply and quick draining waste fixture with renewable seats, five-ball all-metal indexed handles, metal escutcheons, and female union supply connection for ⅜-inch and ½-inch iron pipe; metal indexed integral push button self-closing ice water faucet with ⅜-inch supply to wall and integral regulating stops.



C 32249-A

"RAINIER" SUPPLY AND INDIRECT POP-UP WASTE

The new ***Rainier*** combination supply and pop-up waste fixture now provides a unit type of lavatory fixture at a moderate price. It embodies the latest construction features such as ***Newsleeve*** trimming units with swivel discs and renewable seats. An elevated spout is high enough above the rim of lavatory to prevent any danger from back-siphonage. The ***Rainier*** is ideal for small lavatories because the handles are on 4-inch centers, giving the maximum amount of free slab space.

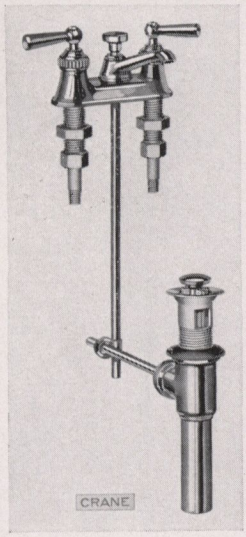
C 32282

Crane ***Rainier*** metal spout compression supply and indirect lift pop-up waste fixture with ***Newsleeve*** trimming units, renewable seats, indexed metal lever handles and 1¼-inch O. D. tailpiece; inlet shanks on 4-inch centers with ¼-inch male I.P.S. union tailpieces.

Finish: Chromium plated.

Note: If supplies are required on 8-inch centers, ⅜x¼-inch offset reducers can be furnished.

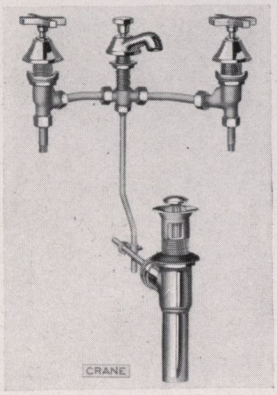
The ***Rainier*** fixture can be furnished for Crane vitreous china or enameled lavatories only and require special lavatory cuttings.



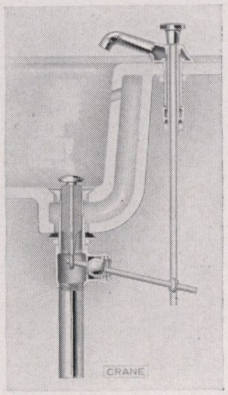
C 32282

"RIVAL" SUPPLY AND INDIRECT LIFT POP-UP WASTE

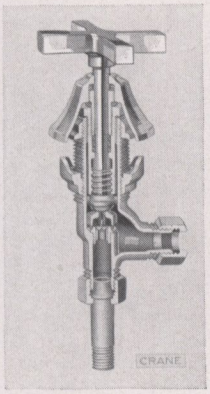
C 32283, Crane ***Rival*** metal spout compression supply and indirect lift pop-up waste fixture with renewable seats, indexed square arm all-metal handles, octagonal metal escutcheons, and ¼-inch male iron pipe tailpieces.
C 32284-R, same as **C 32283,** except with plain escutcheons on valves and round knob on waste.



C 32283



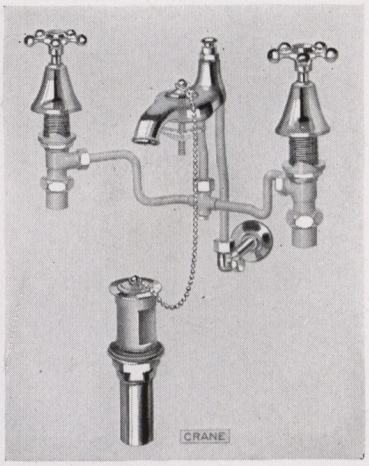
Section—Spout and Waste



Section—Valve

1. All operating parts, including seats, stems and centerpieces, are renewable from top of lavatory without disturbing valve bodies.
2. Internal threads in escutcheons eliminate exposed escutcheon holders.
3. Large diameter stems and large, accurately machined stem threads provide extra strength and easy operation.
4. Valves have large stuffing boxes with adjustable nuts.
5. Heavy valve bodies with large areaways throughout.
6. Swivel discs permit closing valves tightly with minimum effort and reduce wear on discs and seats.
7. Renewable seats.
8. Ball operates against packing ring instead of against metal seat; it is forced against packing ring by heavy spring. Minimum wear and water-tight connection are assured.
9. Liberal and simple adjustment on operating rod makes it easy to assemble to different types of staple lavatories.
10. ⅜-inch diameter waste operating rod.
11. Spout outlet raised sufficiently to prevent back-siphonage should basin overflow. Conforms to requirements of Health Departments.
12. Long threads on shanks to meet variation in thickness of ware.
13. No stuffing boxes on waste.

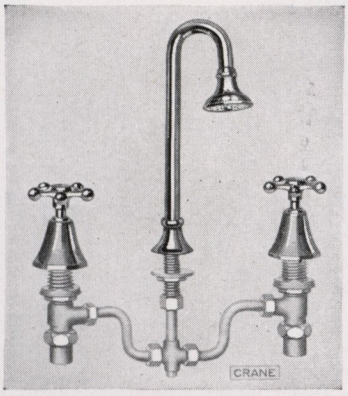
LAVATORY SUPPLY AND WASTE FIXTURES



C 32286

Crane chromium plated metal spout combination supply and P. O. plug fixture with renewable seats, five-ball all-metal indexed handles, metal escutcheons and female union supply connections for ⅜-inch and ½-inch iron pipe; chainstay, beaded chain and 1¼-inch solid rubber stopper, metal indexed integral push button self-closing ice water faucet with ⅜-inch supply to wall and integral regulating stop.

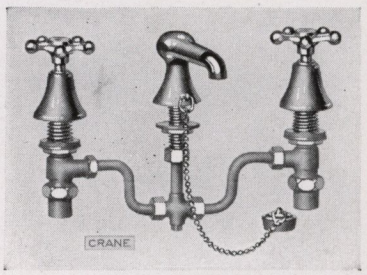
This fixture is furnished for Crane vitreous china lavatories only and requires special lavatory cuttings. The waste is furnished with 1¼-inch or 1½-inch O. D. tailpiece as specified.



C 32290-A

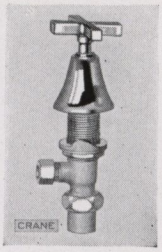
Crane chromium plated lavatory supply fixture with renewable seats, five-ball all-metal indexed handles, metal escutcheons, gooseneck spout with 2-inch spray, and female union supply connections for ⅜-inch and ½-inch iron pipe.

If with plain nozzle, less spray, Specify **C 32288-A.**



C 32292

Crane chromium plated lavatory supply fixture with renewable seats, five-ball all-metal indexed handles, metal escutcheons, low pattern spout with integral chainstay, beaded chain and 1¼-inch solid rubber stopper, and female union supply connections for ⅜-inch and ½-inch iron pipe.



C 32303-A

C 32303-A

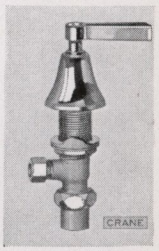
Crane compression lavatory valve with swivel discs, renewable seats, indexed square arm all-metal handle, metal escutcheon, and female union supply connection for ⅜-inch and ½-inch iron pipe.

C 32311 with slip joint connection for 7/16-inch and ½-inch O. D. tubing.

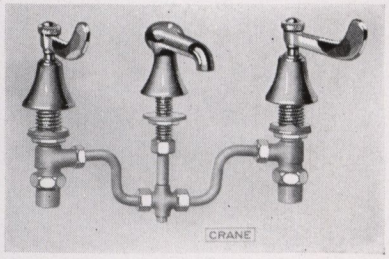
C 32332-B

Crane quick compression lavatory valve with swivel discs, renewable seats, indexed square arm metal lever handle, metal escutcheon and female union supply connection for ⅜-inch and ½-inch iron pipe.

C 32336-B with slip joint connection for 7/16-inch and ½-inch O. D. tubing.

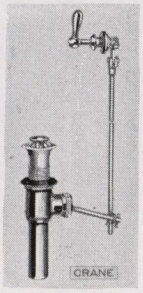


C 32332-B



C 32293

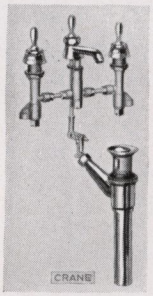
Crane chromium plated quick compression lavatory supply fixture with renewable seats, china indexed arm action metal blade handles, metal escutcheons, low pattern spout, and female union supply connections for ⅜-inch and ½-inch iron pipe.



C 32381-M

Crane chromium plated ***Rival*** indirect lift pop-up waste with metal lever handle and 1¼-inch O. D. tailpiece.

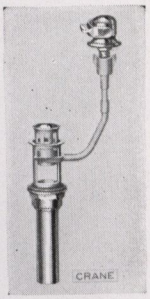
These wastes are for use with vitreous china or porcelain enameled cast iron lavatories with backs having regular P. O. plug outlets and waste punchings through back.



C 32385

Crane metal spout combination supply and pop-up waste fixture; self-closing valves with renewable seats, indexed all-metal oscillating handles and ¼-inch female iron pipe inlets; indirect lift pop-up waste with indexed all-metal oscillating handle, non-removable plug and 1¼-inch O. D. tailpiece.

For use with vitreous china lavatories with regular P. O. plug outlets and 1⅛-inch chainstay punchings.



C 32359

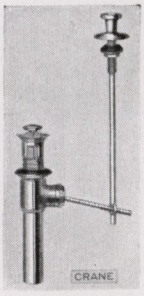
(Patented)

Crane ***Lever Action Securo*** quick draining waste with metal lever handle and removable waste plug.

Lever Action Securo wastes are furnished for Crane vitreous china or porcelain enameled cast-iron lavatories only and require special lavatory cuttings.

Waste tailpiece is furnished 1¼-inch or 1½-inch O. D. as specified.

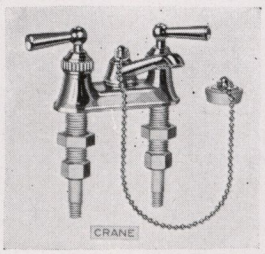
Also furnished with non-removable waste plug.



C 32380-M

Crane ***Rival*** indirect lift pop-up waste with metal knob, metal escutcheon and 1¼-inch O. D. tailpiece

These wastes are for use with vitreous china or porcelain enameled cast iron lavatories with regular P. O. plug outlets and 1⅛-inch chainstay punchings.



C 32390

C 32390

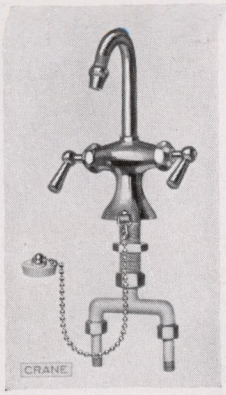
Crane ***Rainier*** metal spout compression supply fixture with ***Newsleeve*** trimming units, renewable seat, metal lever index handles, chainstay, beaded chain and 1¼ inch solid rubber stopper; inlet shanks on 4 inch centers with ¼ inch male I.P.S. union tailpieces.

NOTE: If supplies are required on 8 inch centers, ⅜x¼ inch offset reducers can be furnished extra. The ***Rainier*** fixture can be furnished for Crane vitreous china or enameled lavatories only and require special lavatory cuttings.

Finish: Where finish is not specified—exposed parts of fixtures shown above can be furnished in chromium or nickel plate.

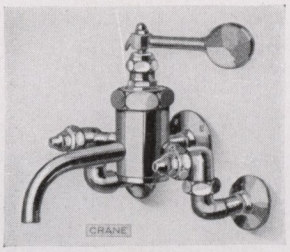
BRASS TRIMMINGS

FOR HOSPITALS, SCHOOLS, FACTORIES, OFFICE BUILDINGS, DOCTORS' OFFICES, ETC.



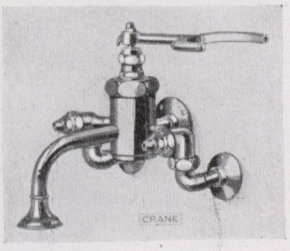
C 7430-N

Crane ***Improved Agilis*** double lavatory faucet with ¾-inch O.D. gooseneck with plain nozzle; ***Newsleeve*** trimming unit, renewable seats, swivel discs, indexed metal lever handles, chainstay with beaded chain and rubber stopper; ¼-inch I.P. tailpieces.



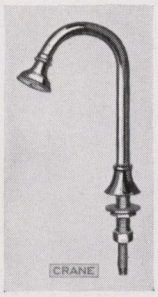
C 7500
(PATENTED)

Crane ½-inch arm action mixing valve supply fixture with renewable seats; blade handle, rigid spout; screw driver stops with union elbows and supplies to wall.
Spout outlet to wall, 9 inches.



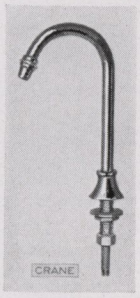
C 7502
(PATENTED)

Crane ½-inch arm action mixing valve supply fixture with renewable seats; stirrup handle, rigid spout with 2-inch spray; screw driver stops with union elbows and supplies to wall.
Spout outlet to wall, 9 inches.



C 7520

Crane gooseneck spout with 2-inch spray with removable face and ¼-inch I.P. tailpiece. Base to outlet, 6 inches.
Center of supply to outlet, 5 inches.



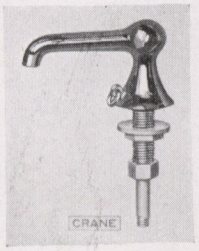
C 7522

Crane gooseneck spout with plain nozzle; ¼-inch I.P. tailpiece. Base to outlet, 6½ inches.
Center of supply to outlet, 4¾ inches.



C 7530

Crane low pattern spout with ¼-inch I.P. tailpiece.
Base to outlet, 4½ inches.



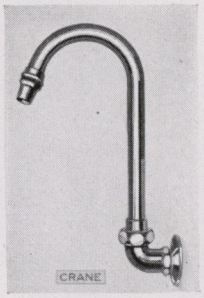
C 7530-CR

Crane low pattern spout with chainstay and ¼-inch I.P. tailpiece.
Base to outlet, 4½ inches.



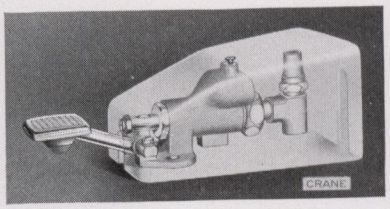
C 7535

Crane gooseneck spout with 3-inch spray with removable face and flanged union elbow with ½-inch female I.P. connection.
Outlet to wall, 5″, 6¾″ or 11″.



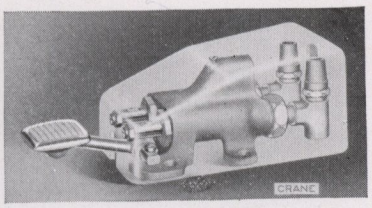
C 7537

Crane gooseneck spout with plain nozzle and flanged union elbow with ½-inch female I.P. connection.
Outlet to wall, 5″, 6½″ or 10¾″.



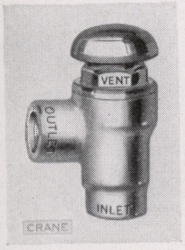
C 7603-A

Crane chromium plated exposed self-closing single pedal supply valve with removable cover; renewable seat, stop and ⅜-inch female I.P. inlet and outlet connection.
If desired with elbow instead of stop, specify C 7602-B.



C 7608

Crane chromium plated exposed self-closing single pedal mixing valve with removable cover; renewable seats, stops and ⅜-inch female I.P. inlet and outlet connections.
If desired with elbows instead of stops, specify C 7609.



C 7830
(PATENTED)

C 7830

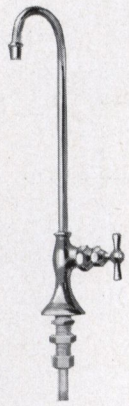
Crane chromium plated brass angle pattern vacuum breaker. For use wherever there is danger of back-siphonage. Full area vent and waterway. Vacuum breaker to automatically vent supply line to atmosphere when supply is shut off or under vacuum. Vacuum breaker to actuate each time supply is operated.

Must be located in supply line between controlling valve and fixture and at least 6 inches above top of fixture.

Furnished in ¼, ⅜, ½ or ¾-inch I. P. sizes.

Where not specified—the above fixtures can be furnished in chromium or nickel plated finish.

CRANE FAUCETS
FOR PANTRY SINKS, BAR AND SODA FOUNTAIN WORKBOARDS



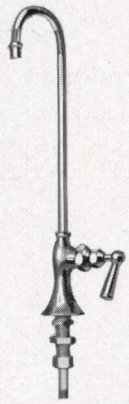
C 32400-N

Improved Telsa pantry faucet with exposed stuffing box, ***Newsleeve*** trimming unit, swivel disc, tee handle, and ¼-inch male iron pipe tailpiece.

Specify: C 32404-N, if indexed four ball all metal handle is desired.

(Furnished in pairs, indexed "H" and "C").

These faucets can be furnished with non-removable shampoo tailpiece on spout, if desired.

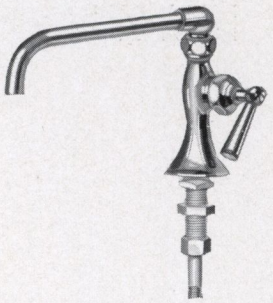


C 32412-N

Improved Agilis pantry faucet with exposed stuffing box, ***Newsleeve*** trimming unit, swivel disc, indexed metal lever handle and ¼-inch male iron pipe tailpiece.

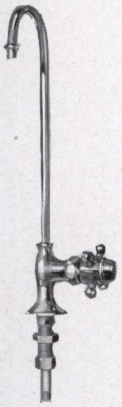
(Furnished in pairs, indexed "H" and "C").

This faucet can be furnished with non-removable shampoo tailpiece on spout, if desired.



C 32415

Agilis workboard faucet with 5-inch swinging spout, metal lever handle and ¼-inch male iron pipe tailpiece.



C 32420-A

C 32420-A

Improved Triumph ball-bearing self-closing pantry faucet with renewable trimming unit, indexed four-ball metal handle and ¼-inch male iron pipe tailpiece.

(Furnished in pairs indexed "H" and "C").

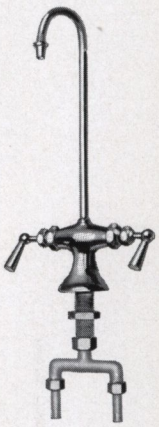
This faucet can be furnished with non-removable shampoo tailpiece on spout, if desired.

C 32472-N

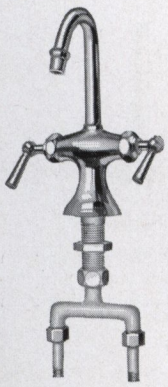
Improved Agilis double pantry faucet with exposed stuffing boxes, ***Newsleeve*** trimming units, swivel discs, renewable seats, indexed metal lever handles, and ¼-inch male iron pipe tailpieces.

Specify: C 32462-N, if indexed four-ball all metal handles are desired.

These faucets can be furnished with non-removable shampoo tailpiece on spout, if desired.



C 32472-N



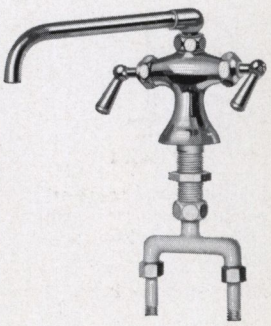
C 32475

C 32475

Improved Agilis double workboard faucet with gooseneck spout, ***Newsleeve*** trimming units, swivel discs, renewable seats, indexed metal lever handles and ¼-inch male iron pipe tailpieces.

C 32485

Improved Agilis double workboard faucet with 8½-inch swinging spout, ***Newsleeve*** trimming units, swivel discs, renewable seats, indexed metal lever handles and ¼-inch male iron pipe tailpieces.



C 32485

BRASS LAVATORY SUPPLIES

ANGLE



C 32500

STRAIGHT



C 32502

$\frac{3}{8}$ x $\frac{7}{16}$-inch rough nickel plated supply pipes with washers; 5 inches long.



C 32510

C 32510

Annealed straight supply pipe; with escutcheon, washers and coupling nut, slip joint both ends.

Size: $\frac{9}{16}$-inch, reduced to $\frac{7}{16}$-inch O.D.; 29 inches long.

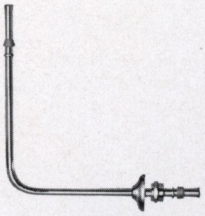


C 32512

C 32512

Straight supply pipe with escutcheon and washer.

Size: $\frac{3}{8}$-inch I.P.S. reduced to $\frac{7}{16}$-inch O.D. slip joint; 29 inches long.



C 32520

Annealed angle supply pipe; slip joint both ends.

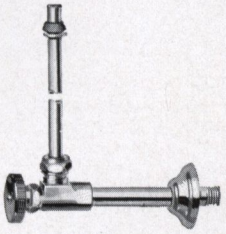
Size: $\frac{9}{16}$-inch O.D. reduced to $\frac{7}{16}$-inch O.D.; 6x10 inches.



C 32522

Angle supply pipe with escutcheon and washers.

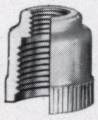
Size: $\frac{3}{8}$-inch I.P.S. reduced to $\frac{7}{16}$-inch O.D. slip joint.



C 32526

Angle supply pipe with wheel handle stop, escutcheon and washers, union connection on riser.

Size: $\frac{3}{8}$-inch I.P.S. to wall and $\frac{7}{16}$-inch O.D. riser.



C 32540

Brass reducer for iron pipe.
$\frac{3}{8}$x$\frac{1}{4}$-inch
$\frac{1}{2}$x$\frac{1}{4}$-inch



C 32542

Thread	Slip
$\frac{3}{8}$	$\frac{7}{16}$ O. D.
$\frac{3}{8}$	$\frac{9}{16}$ O. D.
$\frac{3}{8}$	$\frac{3}{8}$ I. P.
$\frac{1}{2}$	$\frac{3}{8}$ I. P.
$\frac{1}{2}$	$\frac{1}{2}$ I. P.



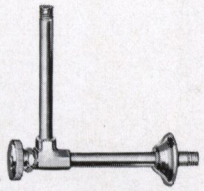
C 32544

C 32544

Straight supply pipe with wheel handle stop and escutcheon; iron pipe both ends. 28 inches long.

Size: $\frac{3}{8}$-inch.

If with loose key stop, specify **C 32545.**



C 32547

$\frac{3}{8}$-inch Angle supply pipe with wheel handle stop and escutcheons; iron pipe both ends.

If with loose key stop, specify **C 32548.**



C 32551

Straight supply pipe with escutcheon; iron pipe both ends, 28 inches long.

Size: $\frac{3}{8}$ or $\frac{1}{2}$-inch.

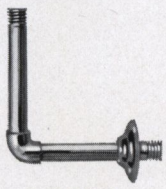


C 32553

Straight supply pipe with wheel handle stop and escutcheon; iron pipe both ends. 28 inches long.

Size: $\frac{3}{8}$ or $\frac{1}{2}$-inch.

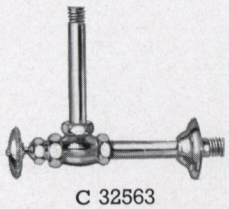
If with loose key stop, specify **C 32558.**



C 32561

Angle supply pipe with escutcheon; iron pipe both ends.

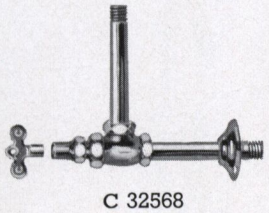
Size: $\frac{3}{8}$ or $\frac{1}{2}$-inch.



C 32563

Angle supply pipe with wheel handle stop and escutcheon; iron pipe both ends.

Size: $\frac{3}{8}$ or $\frac{1}{2}$-inch.



C 32568

Angle supply pipe with loose key stop and escutcheon; iron pipe both ends.

Size: $\frac{3}{8}$ or $\frac{1}{2}$-inch.

CRANE BRASS GOODS

STOPS



C 32580

Crane compression straight stop with exposed stuffing box, for iron pipe.
Size.....**Inches** ⅜, ½, ¾
C 32581, Angle Pattern.
Size.....**Inches** ⅜, ½



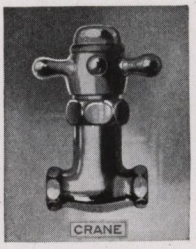
C 32588

Crane compression straight stop with exposed stuffing box, for iron pipe and slip joint.
Size.....**Inches** ½ I. P. by ½ O. D.
½ I. P. by $^{11}/_{16}$ O. D.
C 32589, Angle Pattern.
Size.....**Inches** ⅜ I. P. by $^{11}/_{16}$ O. D.
½ I. P. by ½ O. D.
½ I. P. by $^{11}/_{16}$ O. D



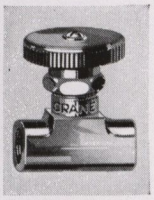
C 32590

Crane compression straight stop with exposed stuffing box, for iron pipe.
Size.....**Inches** ⅜, ½, ¾
C 32591, Angle Pattern.
Size.....**Inches** ⅜, ½



C 32620-A

Crane ***Improved Triumph*** self-closing straight stop with renewable trimming unit and renewable seat, for iron pipe.
Size.....**Inches** ⅜, ½



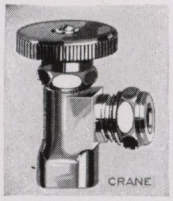
C32608

Crane straight stop for iron pipe. ⅜-inch. Metal to metal seat.



C 32609

Crane angle stop for iron pipe. ⅜-inch. Metal to metal seat.



C 32611

Crane angle pattern stop for iron pipe and slip joint. Metal to metal seat
Size, Ins., ½ I.P. by $^{7}/_{16}$ O.D.
½ I.P. by ½ O.D.



C 32614

Crane lock shield loose-key straight stop for iron pipe. ⅜-inch. Metal to metal seat.



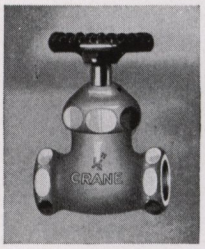
C 32615

Crane lock shield loose-key angle stop for iron pipe. ⅜-inch. Metal to metal seat.



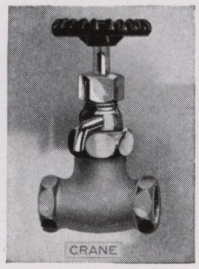
C 32644-A

Crane rough brass compression stop with exposed stuffing box. For iron pipe.
Size....**Inches** ½, ⅝, ¾
C 32645, Angle Pattern.
Size.....**Inches** ½, ¾



C 32646-A

Crane rough brass compression stop for iron pipe.
Size....**Inches** ½, ⅝, ¾
C 32647, Angle Pattern.
Size.....**Inches** ½, ¾



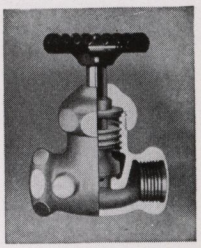
C 32652

Crane rough brass automatic compression stop and drain for iron pipe.
Size.....**Inches** ½, ¾



C 32654-A

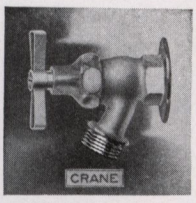
(Cuts show L. H. drain)
Crane rough brass compression stop and drain with exposed stuffing box. For iron pipe.
Size....**Inches** ½, ⅝, ¾



C 32656-A

Crane rough brass compression stop and drain for iron pipe.
Size....**Inches** ½, ⅝, ¾

Unless otherwise specified **C 32654-A** or **C 32656-A** will be shipped in pairs, one stop with right and one with left hand drain.



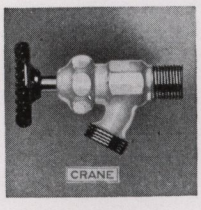
C 32688

Crane rough compression lawn faucet with ¾-inch hose end and combination loose key and tee handle, solid flange; female connection.
Size.....**Inches** ½, ¾



C 32720-A

Crane rough compression sediment faucet with ¾-inch hose end; female connection.
Size.....**Inches** ½, ¾

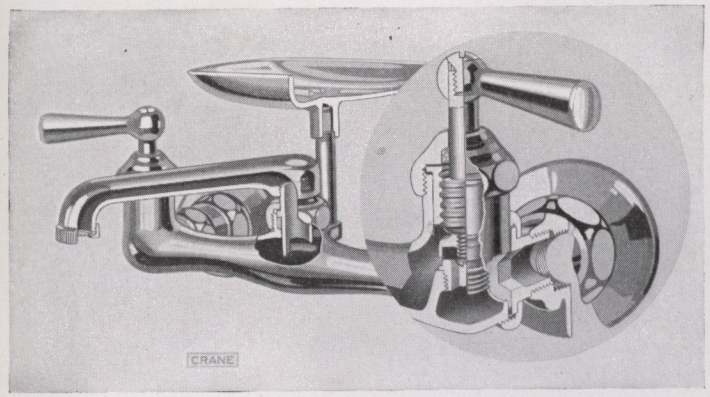


C 32730-A

Crane rough compression sediment faucet with ¾-inch hose end; male connection.
Size.....**Inches** ½, ¾

CRANE "IMPROVED AGILIS" KITCHEN SINK FAUCETS

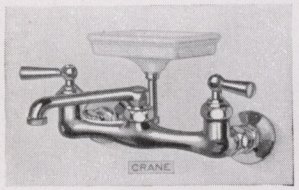
In the new ***Improved Agilis*** kitchen sink faucets, beauty and utility are combined. Sturdy construction, with rounded surfaces and the absence of sharp grooves, is assurance of durability and sanitation.



Section—Improved Agilis Sink Faucet

They are especially adaptable for low back sinks, as the spout is above the faucet body, allowing unobstructed space for washing deep utensils. Heavy nickel or chromium plating provides a lustrous and lasting finish. Features are as follows:

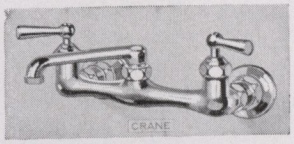
1. Renewable seats, insuring longer life of the fixture.
2. Swivel discs, permits closing valves tightly with minimum effort and reduces wear on discs.
3. ***Newsleeve*** trimmings permit replacement of entire operating unit.
4. Restricted travel feature on spout prevents it swinging back against body and marring the fixture finish.
5. Removable stream guide on spout lessens splashing under high pressures.
6. Large diameter stem threads assure smooth easy operation.
7. Stems are extra heavy, providing extra strength.
8. Large concealed stuffing boxes.
9. Graceful and sturdy spout, swings out of the way when not in use.
10. Spout is fitted with wear-resisting packing.
11. Soap dish is easily removed for cleaning; furnished in metal or china.
12. Eccentric supply connections, adjustable from 7¾ inches to 8¼ inches.



C 32739-N

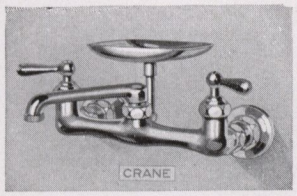
Crane ***Improved Agilis*** double sink faucet with ***Newsleeve*** trimming units, removable seats, top swinging spout with restricted travel and removable stream guide, china soap dish, indexed metal lever handles, and eccentric flanged female union supply connections for ½-inch pipe.

If with eccentric flanged male inlets for ½-inch pipe, specify **C 32734-N.**



C 32740-N

Crane ***Improved Agilis*** double sink faucet with ***Newsleeve*** trimming units, renewable seats, top swinging spout with restricted travel and removable stream guide, indexed metal lever handles and eccentric flanged female union supply connections for ½-inch pipe.

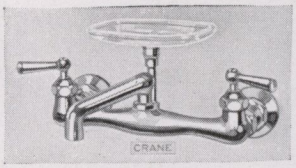


C 32740-SN

Crane ***Improved Agilis*** double sink faucet with ***Newsleeve*** trimming units, renewable seats, top swinging spout with restricted travel and removable stream guide, metal soap dish, indexed metal lever handles, and eccentric flanged female union supply connections for ½-inch pipe.

If with eccentric flanged male inlets for ½-inch pipe, specify **C 32735-SN**

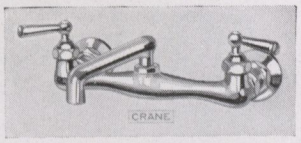
CRANE "RIVAL" KITCHEN SINK FAUCETS



C 32749-A

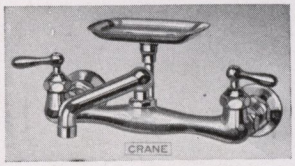
Crane ***Rival*** double sink faucet with renewable seats, top swinging spout, glass soap dish, indexed metal lever handles and eccentric flanged female union connections for ½-inch pipe.

If with eccentric flanged male inlets for ½-inch pipe, specify **C 32745-A.**



C 32751-A

Crane ***Rival*** double sink faucet with renewable seats, top swinging spout, indexed metal lever handles, and eccentric flanged female union supply connections for ½-inch pipe.

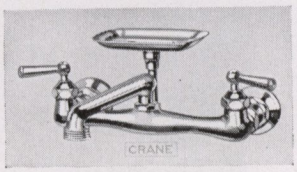


C 32751-AS

Crane ***Rival*** double sink faucet with renewable seats, top swinging spout, metal soap dish, indexed metal lever handles and eccentric flanged female union supply connections for ½-inch pipe.

If with eccentric flanged male union supply connections for ½-inch pipe, specify **C 32746-AS.**

Also furnished with 8-inch long spout, female connections, specify **C 32751-ASL.**

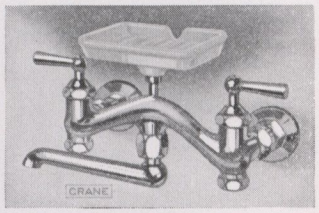


C 32753-A

Crane ***Rival*** double sink faucet with renewable seats, top swinging spout with hose end; metal soap dish, indexed metal lever handles and eccentric flanged female union supply connections for ½-inch pipe

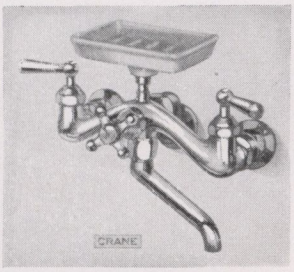
Rival faucets are furnished with eccentric supply connections, adjustable from 7¾ inches to 8¼ inches.

SINK FAUCETS AND FIXTURES



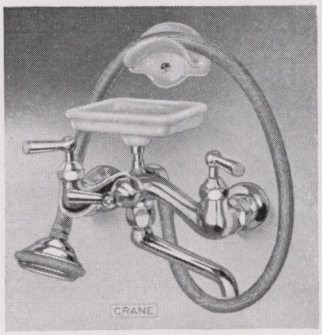
C 32764-H

Crane ***Agilis*** quick compression double sink faucet with renewable seats, swinging spout, integral regulating stops in body, china soap dish, indexed metal lever handles and female union supply connections for ½-inch pipe.
If with adjustable male inlet shanks with set screw flanges, specify **C 32763-H.**



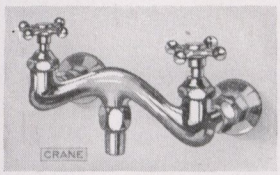
C 32767

Crane ***Agilis*** quick compression triple sink faucet with renewable seats, swinging spout, china soap dish, indexed four-ball all-metal handle, indexed metal lever handles and female union supply connections for ½-inch pipe.



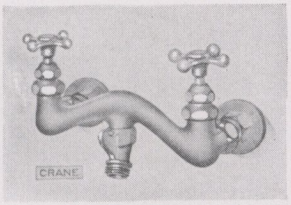
C 32769

Crane ***Agilis*** quick compression double sink faucet with renewable seats, integral transfer valve, swinging spout, china soap dish, hose and spray, china hose rest, indexed metal lever handles and female union supply connections for ½-inch pipe.



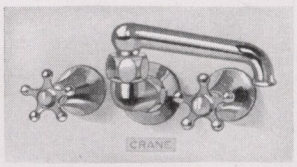
C 32770-N

Crane ***Improved Telsa*** double sink faucets with **Newsleeve** trimming units, renewable seats, indexed four-ball all-metal handles, and female union supply connections for ½-inch pipe.



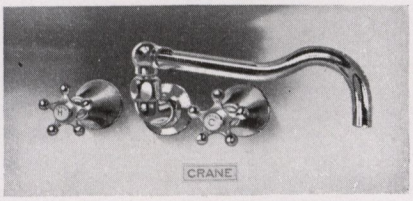
C 32780

Crane ***Telsa*** rough double sink faucet with exposed stuffing boxes, renewable seats, rigid spout with hose end and pail hook, indexed four-ball all-metal handles and female union supply connections for ½-inch pipe.



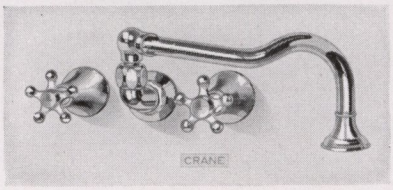
C 32846

Crane concealed supply fixture with swinging spout ½-inch compression supply valves with renewable seats, indexed five-ball all-metal handles and metal escutcheons. Center of spout outlet to wall flange 9¾ inches.
If with swinging gooseneck spout, specify **C 32850.**



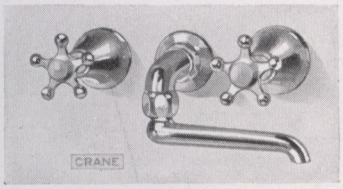
C 32852

Crane concealed supply fixture with swinging spout, ½-inch compression supply valves with renewable seats, indexed five-ball all-metal handles and metal escutcheons. Center of spout outlet to wall flange 15 inches.



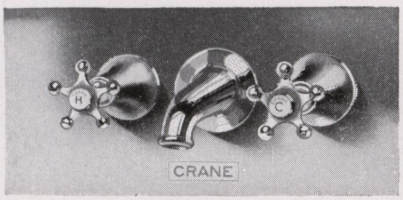
C 32854-A1

Crane concealed supply fixture with swinging spout with 2-inch spray, ½-inch compression supply valves with renewable seats, indexed five-ball all-metal handles and metal escutcheons. Center of spout outlet to wall flange 9¾ inches.
Also furnished 15 inches, center of spout outlet to wall flange, specify **C 32854-A2.**



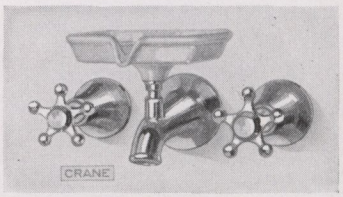
C 32856

Crane concealed supply fixture with swinging spout, ½-inch compression supply valves, renewable seats, indexed five-ball all-metal handles and metal escutcheons. Center of spout outlet to wall flange 8¾ inches.
If with china soap dish on spout, specify **C 32858.**



C 32860

Crane concealed supply fixture with 5½-inch heavy rigid spout, ½-inch compression supply valves with renewable seats, indexed five-ball all-metal handles and metal escutcheons.
If with 9-inch spout, specify **C 32860-A2.**

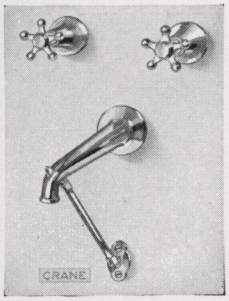


C 32862

Crane concealed supply fixture with 4-inch heavy rigid spout, china soap dish, ½-inch compression supply valves with renewable seats, indexed five-ball all-metal handles and metal escutcheons

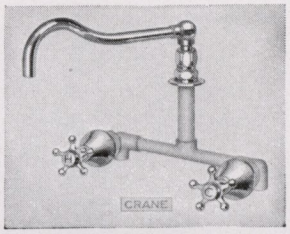
NOTE: Concealed sink fixtures numbered **C 32846** to **C 32862** are designed for use with porcelain (all-clay) and vitreous china sinks and cannot be used in connection with enameled sinks unless a recess 1-inch deep is provided in the wall behind the sink.

SINK SUPPLY FIXTURES



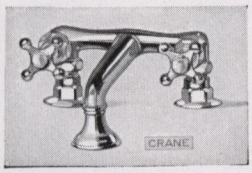
C 32864

Crane concealed supply fixture with 14½-inch spout with pail hook and brace to wall, ½-inch compression supply valves with renewable seats, indexed five-ball all-metal handles and metal escutcheons.



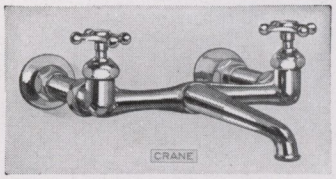
C 32866-A

Crane concealed supply fixture with 12-inch swinging spout with restricted travel, ½-inch compression supply valves with renewable seats, indexed five-ball all-metal handles and metal escutcheons.
For metal pantry sinks.



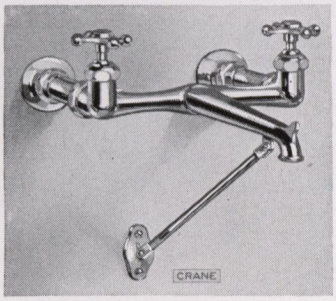
C 32868

Crane compression supply fixture with renewable seats and indexed four-ball all-metal handles, 6-inch rigid spout with 2-inch spray, and female union supply connections for ½-inch pipe.
For vitreous china or porcelain (all-clay) sinks.



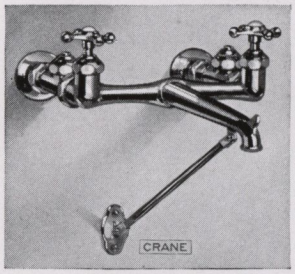
C 32890-N

Crane ***Improved Telsa*** compression supply fixture with ***Newsleeve*** trimming units, renewable seats, indexed four-ball all-metal handles, plain spout, and female union supply connections for ½-inch pipe. Center of spout outlet to wall flange 9 inches.



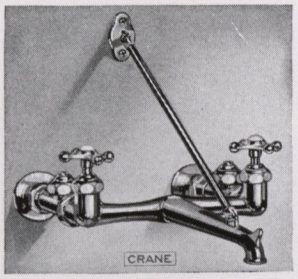
C 32892-N

Crane ***Improved Telsa*** compression supply fixture with ***Newsleeve*** trimming units, renewable seats, indexed four-ball all-metal handles, spout with pail hook and brace to wall, and female union supply connections for ½-inch pipe. Center of spout outlet to wall flange 9 inches.
If with forked brace, specify **C 32893-N.**



C 32895-N

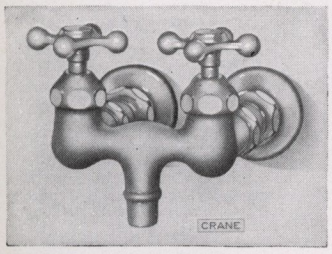
Crane ***Improved Telsa*** compression supply fixture with ***Newsleeve*** trimming units, renewable seats, indexed four-ball all-metal handles, spout with pail hook and brace to wall, integral stops in shanks and female union supply connections for ½-inch pipe. Center of spout outlet to wall flange, 9 inches.
If with forked brace, specify **C 32896-N.**
Also furnished 14½ inches, center of spout outlet to wall flange.



C 32898-N

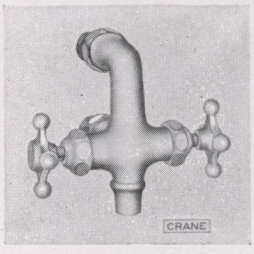
Crane ***Improved Telsa*** compression supply fixture with ***Newsleeve*** trimming units, renewable seats, indexed four-ball all-metal handles, spout with pail hook and brace to wall above spout, integral stops in shanks and female union supply connections for ½-inch pipe. Center of spout outlet to wall flange 9 inches.
Also furnished 14½ inches center of spout outlet to wall flange.

WASH SINK FAUCETS



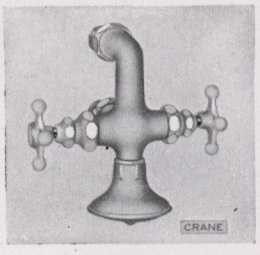
C 32905

Crane ¾-inch ***Telsa*** double wash sink faucet.



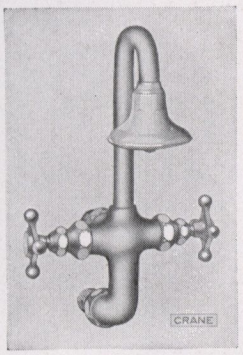
C 32910

Crane ¾-inch ***Telsa*** double wash sink faucet with renewable seats.
If with exposed stuffing boxes, specify C 32911.



C 32912

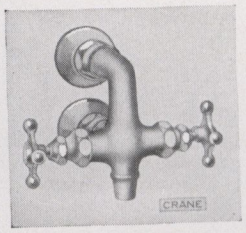
Crane ¾-inch ***Telsa*** double wash sink faucet with renewable seats, exposed stuffing boxes and 3-inch spray.



C 32913

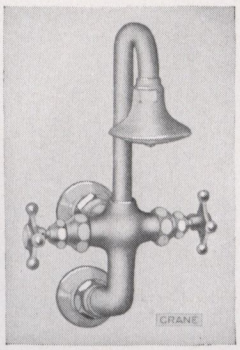
Crane ¾-inch ***Telsa*** double wash sink faucet with renewable seats, exposed stuffing boxes and gooseneck with 3-inch spray.

FAUCETS AND FIXTURES



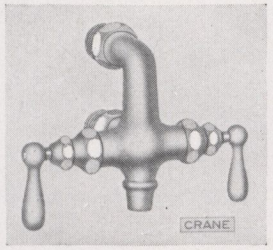
C 32921

Crane ½-inch ***Telsa*** double wash sink faucet with renewable seats and exposed stuffing boxes.



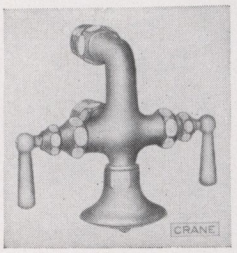
C 32923

Crane ½-inch ***Telsa*** double wash sink faucet with renewable seats, exposed stuffing boxes and gooseneck with 3-inch spray.



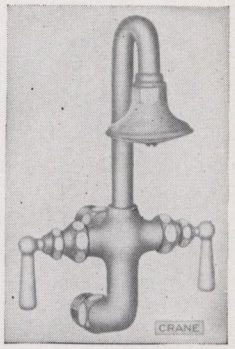
C 32930

Crane ¾-inch ***Agilis*** quick compression double wash sink faucet with renewable seats and exposed stuffing boxes.



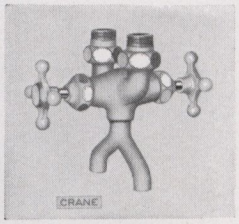
C 32931

Crane ¾-inch ***Agilis*** quick compression double wash sink faucet with renewable seats, exposed stuffing boxes and 3-inch spray.



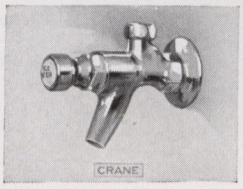
C 32932

Crane ¾-inch ***Agilis*** quick compression double wash sink faucet with renewable seats, exposed stuffing boxes and gooseneck with 3-inch spray.



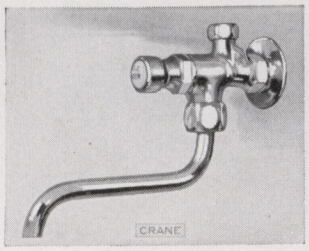
C 32940-N

Crane ¾-inch ***Improved Telsa*** wash sink faucet with ***Newsleeve*** trimming units and renewable seats; twin spout.



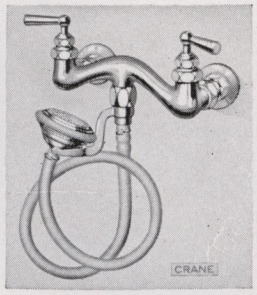
C 32950

Crane push button self-closing ice water faucet with concealed regulating screw and solid female flange for ⅜-inch pipe.



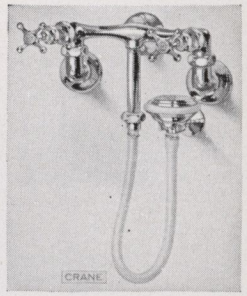
C 32952

Crane push-button self-closing ice water faucet with swinging spout, concealed regulating screw and solid female flange for ⅜-inch pipe.



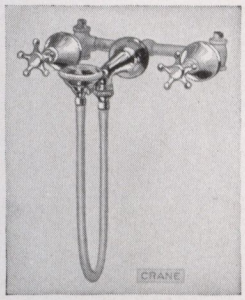
C 33012-N

Crane ***Improved Agilis*** double shampoo faucet with ***Newsleeve*** trimming units and renewable seats; ⅜-inch reinforced rubber hose 3 feet long with 3-inch rubber-bound spray and hook.



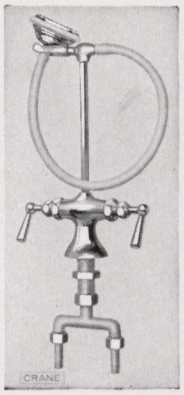
C 33028-N

Crane ***Improved Telsa*** double shampoo fixture with ***Newsleeve*** trimming units and renewable seats; ⅜-inch reinforced rubber hose, 3 feet long with 3-inch rubber-bound spray and hook.



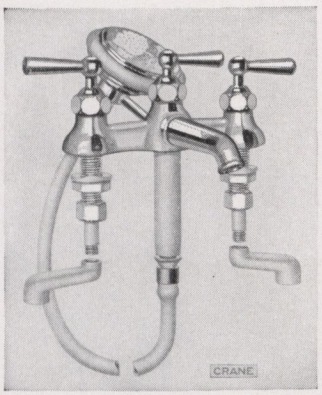
C 33033-A

Crane concealed shampoo fixture with ½-inch compression by-pass pattern supply valves with renewable seats, five-ball metal indexed handles and escutcheons, shampoo hose connection, ⅜-inch reinforced rubber hose 3 feet long with 3-inch rubber bound spray and hook.



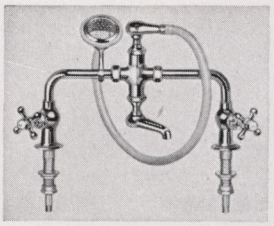
C 33062-N

Crane ***Improved Agilis*** quick compression double shampoo fixture with ***Newsleeve*** trimming units and renewable seats; indexed metal lever handles, ⅜-inch I. D. reinforced rubber hose 2 feet long with 3-inch rubber bound spray and hook, and ¼-inch male tailpieces.



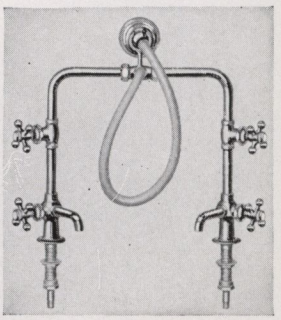
C 33070

Crane metal spout quick compression barber lavatory supply fixture with renewable seats, indexed metal lever handles, transfer valve, concealed ⅜-inch I. D. reinforced rubber hose, 4 feet long with 3-inch rubber bound spray and combination hose guide and spray holder, and offset female union supply connections for ⅜-inch iron pipe.
For C 1845 Barber Lavatory



C 33081

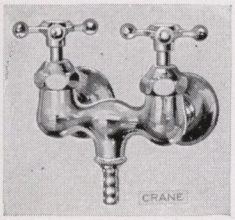
Combination lavatory and shampoo fixture with swinging spout and swinging shampoo, controlling valves, hose, 3-inch spray and hook; ¼-inch tailpieces.



C 33086

Combination lavatory and shampoo fixture with compression faucets controlling valves, hose, 2-inch spray and hook; ¼-inch tailpieces.

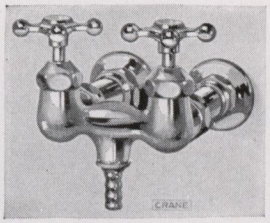
BRASS GOODS



C 33103

PLAIN

Crane ½-inch ***Telsa*** compression double bath faucet; four-ball all-metal indexed handles; shampoo tailpiece on spout.

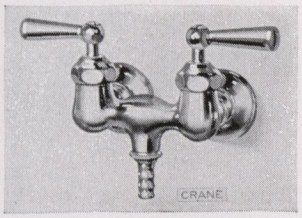


C 33112

WITH EXTENSION SHANKS

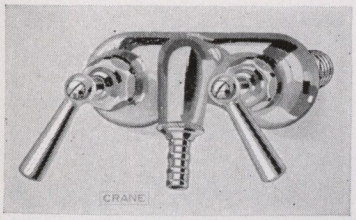
Crane ½-inch ***Telsa*** compression double bath faucet; four-ball all-metal indexed handles; extension shanks (outlet to wall flange—5 inches); shampoo tailpiece on spout.

For installation in wall over rim of built-in baths.



C 33121

Crane ***Agilis*** quick-compression double bath faucet; metal lever handles; shampoo tailpiece on spout.



C 33134

Crane ***Agilis*** quick-compression front handle double bath faucet; metal lever handles; shampoo tailpiece on spout.



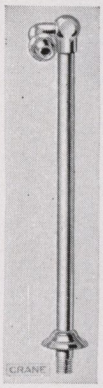
C 33164

Crane ½-inch rough bath faucet coupling nut with bent tailpiece for iron pipe.



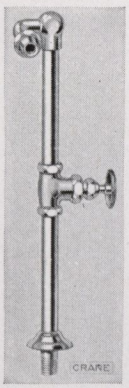
C 33166-A

Crane ½-inch ball-offset bath faucet coupling for iron pipe.



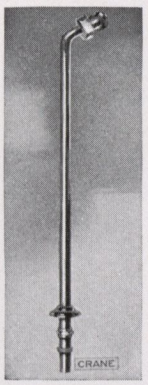
C 33200-A

Crane ½-inch brass supply pipe with ball-offset coupling for bath faucets. 20½ inches long.



C 33201-A

Crane ½-inch brass supply pipe with stop and ball-offset coupling for bath faucets. 20½ inches long.



C 33208

9/16-inch O. D. annealed brass supply pipe for bath faucets; to slip ½-inch iron pipe. 21½ inches long with brass cone.



C 33260

Crane brass renewable seat with internal hexagon.

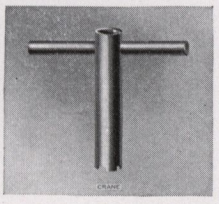
No.	Approx. Seat Bore
2	5/16″
4	3/8″
6	1/2″



C 33270

Crane "HEAVY PLBG" composition disc.

No.	Approx. Seat Bore
2	19/32″
4	21/32″
6	3/4″
8	7/8″
10	1 1/8″



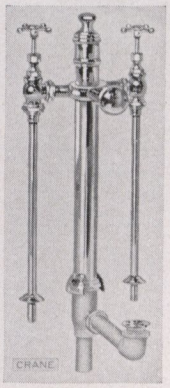
C 33255

Crane steel wrench for removing seats in Crane mixing valves.

½-inch **¾-inch**

BRASS GOODS

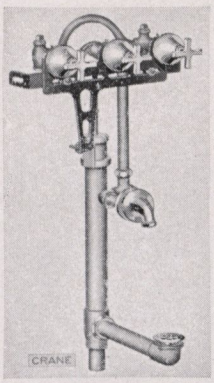
TRIMMINGS FOR BATHS



C 33402

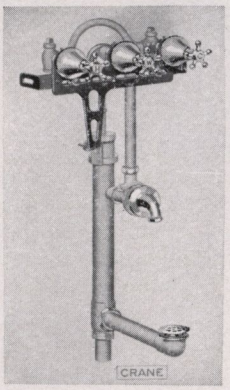
Compression bell supply and standing waste fixture; renewable seats, 2-inch waste barrel and ½-inch supplies to floor; five-ball all-metal indexed handles and metal knob.

Suited for use with built-in tubs.



C 33426

Crane ***Rival*** compression top nozzle supply and standing waste fixture; 2-inch waste barrel and ½-inch valves with renewable seats; adjustable wall plate; indexed square-arm metal handles and metal escutcheons.



C 33466-E

FOR END WALL (Illustrated)

C 33466-B

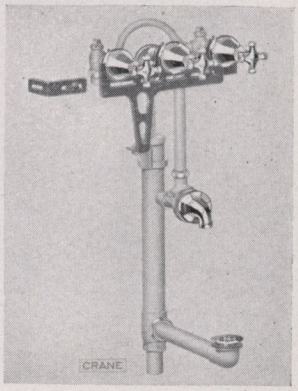
FOR BACK WALL

Crane compression top nozzle supply and standing waste fixture; 2-inch waste barrel and ½-inch valves with renewable seats; adjustable wall plate; five-ball all-metal indexed handles and metal escutcheons.

If with unions, specify C 33456-E or C 33456-B.

Can be furnished with bell instead of nozzle supply.

Also furnished with ¾-inch valves and 2½-inch waste barrel.



C 33456-E Design 40

FOR END WALL (Illustrated)

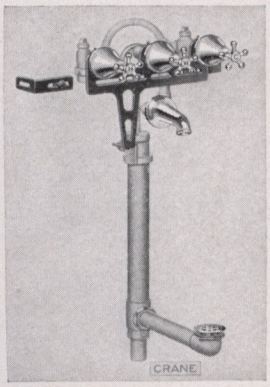
C 33456-B Design 40

FOR BACK WALL

Crane Design 40 Octagonal compression top nozzle supply and standing waste fixture; 2-inch waste barrel and ½-inch valves with renewable seats; adjustable wall plate; Design 40 Octagonal handles, escutcheons and nozzle.

Also furnished with ¾-inch valves and 2½-inch waste barrel.

Also furnished with Design 45 Fluted or Design 50 Crystal trimmings.



C 33476-E

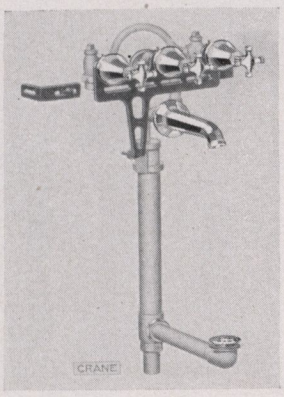
FOR END WALL (Illustrated)

C 33476-B

FOR BACK WALL

Crane compression overrim supply and standing waste fixture; 2-inch waste barrel and ½-inch valves with renewable seats; adjustable wall plate; five-ball all-metal indexed handles and metal escutcheons.

Also furnished with ¾-inch valves and 2½-inch waste barrel.



C 33476-E Design 40

FOR END WALL (Illustrated)

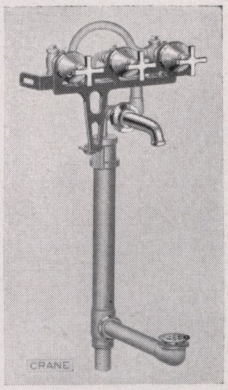
C 33476-B Design 40

FOR BACK WALL

Crane Design 40 Octagonal compression overrim supply and standing waste fixture; 2-inch waste barrel and ½-inch valves with renewable seats; adjustable wall plate; Design 40 Octagonal handles, escutcheons and spout.

Also furnished with ¾-inch valves and 2½-inch waste barrel.

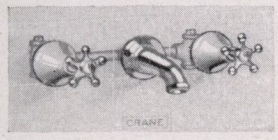
Also furnished with Design 45 Fluted or Design 50 Crystal trimmings.



C 33495

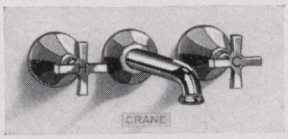
Crane ***Rival*** overrim supply and standing waste fixture; 2-inch waste barrel and ½-inch valves with renewable seats; adjustable wall plate; indexed square-arm metal handles and metal escutcheons.

TRIMMINGS FOR BATHS



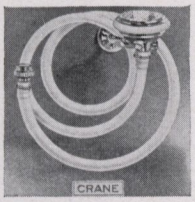
C 33518-B

Crane ½-inch compression overrim supply fixture with renewable seats, indexed five-ball all-metal handles and metal escutcheons. Valves on 8-inch centers.
Also furnished ¾-inch.
If with unions, Specify **C 33512-B.**
Can also be furnished with square arm handles and in Design 40, 45 or 50.
Valves can be furnished on 11-inch centers.



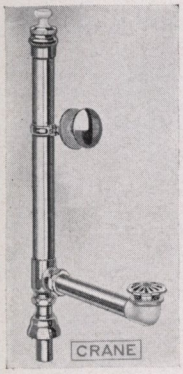
C 33536

Crane ***Rival*** ½-inch compression overrim supply fixture with renewable seats, indexed square-arm metal handles and octagonal metal escutcheons. Valves on 8-inch centers.
If with unions, Specify **C 33537.**
Also furnished with plain pattern escutcheons at same price.



C 33540

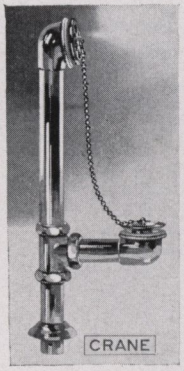
Crane shampoo with 3-inch rubber bound spray; ⅜-inch I. D. corrugated reinforced red rubber hose 5 feet long, spray hook and two-piece swivel type shampoo tailpiece.
If with stainless steel flexible covering, Specify **C 33544.**



C 33551

C 33551

Standing waste and overflow with 2-inch barrel and brace to tub; 1½-inch outlet.

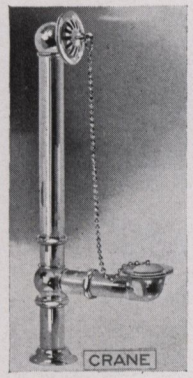


C 33560

C 33560

Cast brass connected waste and overflow with chain and rubber stopper.

Size.....**Inches 1⅜**

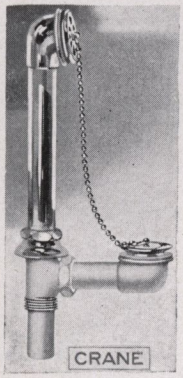


C 33564

C 33564

Wrought brass adjustable connected waste and overflow with chain and rubber stopper.

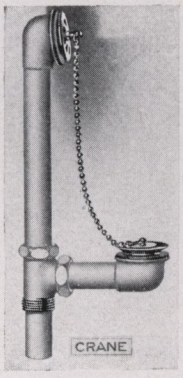
Size.....**Inches 1⅜**



C 33570

Connected waste and overflow with chain and rubber stopper, waste below floor.

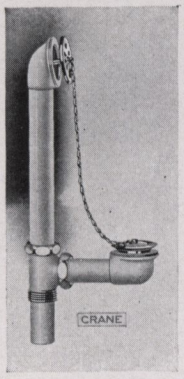
Size.....**Inches 1½**



C 33572-E

Crane cast brass connected waste and overflow with chain and rubber stopper for concealed installation.

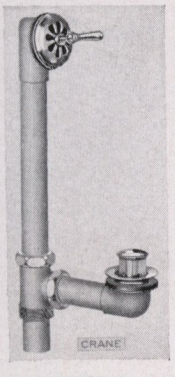
Size.....**Inches 1½ 2**



C 33574-E

Crane ***Rival*** cast brass connected waste and overflow with chain and rubber stopper, for concealed installation.

Size.....**Inches 1½**



C 33581-E

Crane ***Accesso*** pop-up trip lever waste and overflow. Also furnished with Design 40 Octagonal and Design 50 Crystal trimmings.

Size.....**Inches 1½ 2**

Can also be furnished with female I. P. S. outlet connection.

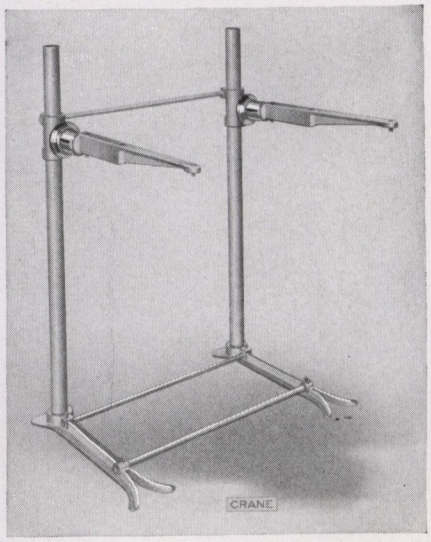
CAST IRON CHAIR AND WALL CARRIERS

CHAIR CARRIERS

Crane built-in Chair Carriers provide a practical and economical support for wall hung vitreous china lavatories and sinks. They are recommended for use where walls are not sufficiently strong to support heavy fixtures.

These Chair Carriers are supported from the floor, the base plates being concealed below the finished surface and the vertical standards built into the wall, permitting the bracket attachments to extend through the finished wall. As the fixture rests directly on the brackets, the entire weight is on the carrier, and no part of it is carried by the partition.

The vertical standards are made of 1¼-inch iron pipe. Bracket attachments and brackets are cast iron. Floor plates are cast iron and with heavy tie rods or spacers to set the brackets on correct centers.

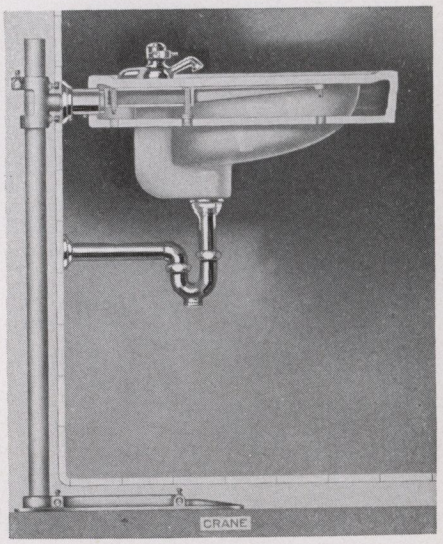


C 33657
Outside View—Chair Carrier with Exposed Brackets

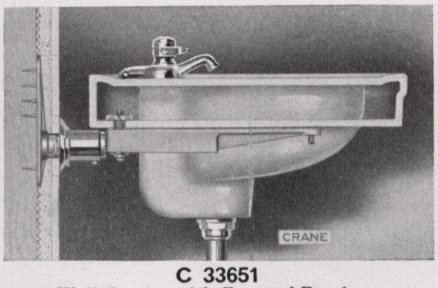
SUPERIOR FEATURES

1. Entire weight of fixture is on carrier and no part of it is carried by the partition.
2. Floor and wall behind lavatory can easily be kept clean and sanitary.
3. Can be installed in partitions of 4-inch minimum thickness.
4. Approximately 1-inch horizontal adjustment is provided to meet variations in thickness of wall finish.
5. Vertical adjustment is provided. Lavatory rim to finished floor can be set as follows:
   With exposed brackets—37 inches maximum
   With concealed brackets—34 inches maximum
6. Bracket screw permits leveling of fixture.
7. Chromium plated covering tubes and escutcheons conceal the brackets between the wall and lavatory.
8. These carriers also may be used to support lavatories or sinks set against the wall. When installed in this manner the covering tubes and escutcheons are omitted.

Brackets are furnished in two lengths. The shorter brackets are for 20x18-inch and 24x21-inch vitreous china lavatories or vitreous china sinks up to 36 inches long and not more than 22 inches wide. The longer brackets are for use with 27x22-inch vitreous china lavatories and vitreous china sinks up to 36 inches in length and more than 22 inches in width. For vitreous china sinks more than 36 inches long, two complete chair carriers are required.



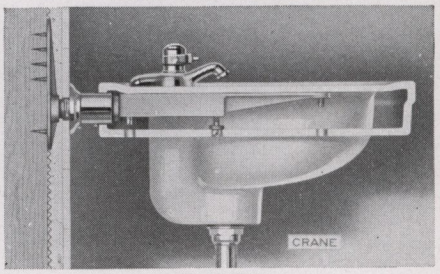
C 33659
Sectional View Showing Chair Carrier with Concealed Bracket



C 33651
Wall Carrier with Exposed Brackets
Sectional View Showing Assembly to Lavatory

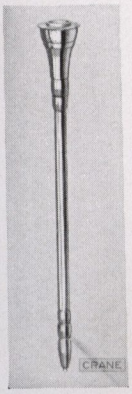
WALL CARRIERS

Crane built-in Wall Carriers are for installation where walls are sufficiently strong to support a wall hung lavatory. They consist of two cast iron wall plates with integral studs for attaching the brackets. The wall plates are securely screwed to the studding and the complete wall finish can be applied before placing the brackets, as ample inward and outward adjustment is provided to meet variations in the thickness of the wall finish. The carriers can be readily adapted for installation on partitions of hollow tile construction by bolting the wall plates of the carrier to strap iron plates on the opposite side of partition.

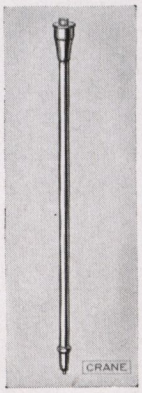


C 33653
Wall Carrier with Concealed Brackets
Sectional View Showing Assembly to Lavatory

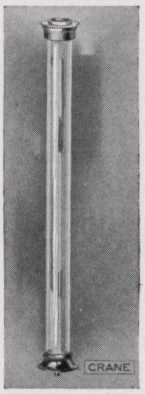
LAVATORY LEGS AND BRACKETS



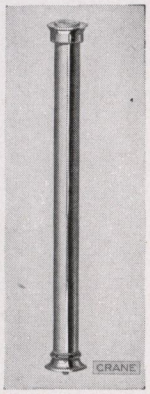
C 33676-C



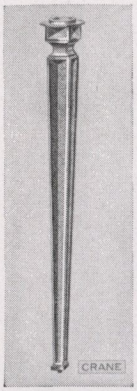
C 33677



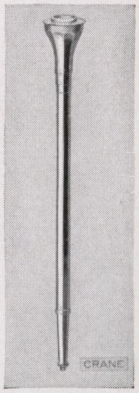
C 33722-GC



C 33722-MM



C 33725-AC



C 33726-C

LAVATORY LEGS AND BRACKETS

C 33676-C Crane ornamental, adjustable, round metal leg for vitreous china lavatories or dressing tables.
If for marble lavatories or dressing tables, specify **C 33676-M.**
This leg is recommended for use in connection with Design 50 Crystal trimmings.

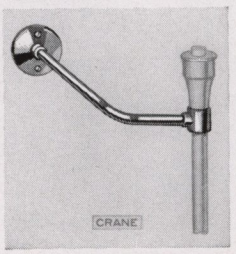
C 33677 Crane ***Rival*** adjustable, round metal leg for small vitreous china lavatories.

C 33722-GC Crane round, crystal glass leg with metal upper and lower sockets for china lavatories or dressing tables; upper sockets adjustable.
If for marble lavatories or dressing tables, specify **C 33722-GM.**

C 33722-MM Crane round metal leg with upper and lower sockets for marble lavatories or dressing tables; upper sockets adjustable

C 33725-AC Crane square paneled, adjustable, metal leg for china lavatories or dressing tables.
Recess panels are rough plated; borders are burnished.
If for marble lavatories or dressing tables, specify **C 33725-AM.**

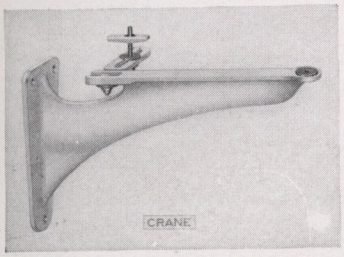
C 33726-C Crane Octagonal adjustable metal leg for china lavatories or dressing tables.
If for marble lavatories or dressing tables, specify **C 33726-M.**
This leg is recommended for use in connection with Design 40 Octagonal trimmings.



C 33665

Chromium plated ***Handy*** metal towel bar. Suitable for use with all lavatories having **C 33677 *Rival*** metal legs. Furnished with leg attachment and wall flange. May be used either left or right.

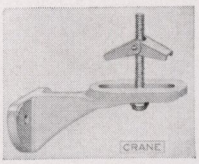
LAVATORY AND SINK TRIMMINGS



C 33714

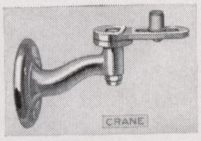
Crane porcelain enameled cast iron semi-concealed lavatory bracket with toggle bolts.

Also furnished with painted enameled finish.



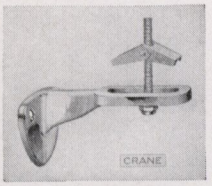
C 33717

Crane porcelain enameled cast iron wall bracket with toggle bolts and screws for white china lavatories on single leg or pedestal.



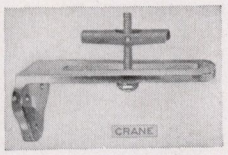
C 33718-M

Crane brass adjustable wall bracket with lead expanders and screws for marble lavatories and dressing tables.



C 33719

Crane chromium plated brass wall bracket with toggle bolts and screws for china lavatories on two legs.



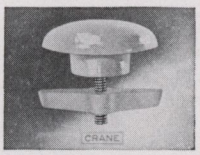
C 33720

Crane chromium plated brass angle wall brackets with toggle bolts and screws for colored china lavatories on single leg or pedestal.



C 33730

Brass faucet hole cover, for lavatories and sink backs.



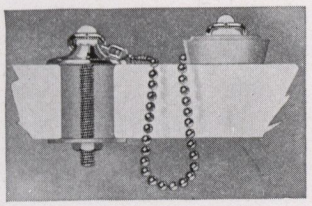
C 33732

Vitreous china faucet hole cover with brass stud, washer and nut, for lavatories.



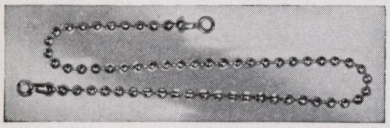
C 33745

Crane stamped steel washer for basin faucet shanks. Cadmium plated.



C 33752

Crane chain stay with bead chain and 1¼-inch solid rubber stopper.

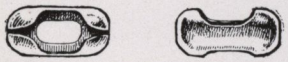


C 33768

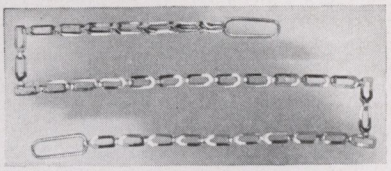
No. 10 Bead Chain. Illustrated with type "A" Coupling. Can also be furnished with type "B" coupling.

C 33769

No. 13 Bead Chain with Type "A" Coupling.



Type "B" Coupling



C 33780

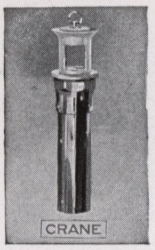
N. P. safety chains, with split links.

Number	00	0	1	2

LENGTHS

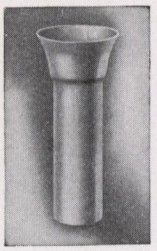
For Lavatories	16 inches
For Laundry Tubs	20 inches
For Baths	26 inches

Also furnished without links in boxes of 12 yds. or reels.



C 33800
With stopper

Crane cast brass basin plug with patent overflow, rubber stopper and tailpiece. 1¼ or 1½ inch O.D. tailpiece.



C 33815

Rough N.P. funnel connection with 1¼ or 1½ inch O.D. tailpiece, 4, 5 or 6 inches long.



C 33820

Crane solid rubber stoppers.

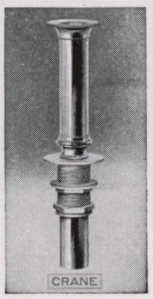
Size Inches	Thickness Inches
1¼	½
1½	9/16
2	¾
2	1



C 33822

LIGHT PATTERN SOLID RUBBER STOPPERS

Size	Inches
¾, ⅞, 1, 1⅛, 1¼, 1⅜, 1½, 1⅝, 1¾, 2	



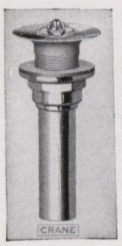
C 33852-S

For nickel silver sinks

C 33852-P

For porcelain sinks

Open standing waste and overflow with coupling and 1½-inch O.D. tailpiece.



C 33860-A

Crane cast brass plug with 1½" solid rubber stopper and 1½" O.D. tailpiece.



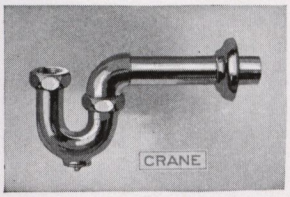
C 33872-A

Crane cast brass open strainer with 1½" O.D. tailpiece.

For vitreous china and porcelain sinks and laundry tubs.

BRASS GOODS

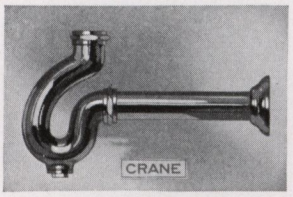
TRAPS



C 33900

Crane cast brass adjustable swivel pattern "P" trap with cleanout, tubing waste to wall, and pressed escutcheon.

Size.....**Inches**
1¼x1¼, 1½x1¼, 1½x1½
Lengths 11 or 14 inches.



C 33970

Brass offset "P" trap with cleanout, tubing waste to wall, and escutcheon.

Size.....**Inches**
1¼x1¼, 1½x1¼, 1½x1½



C 33976

Crane cast brass "P" trap with cleanout and female iron pipe outlet.

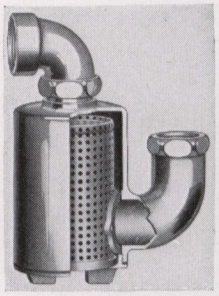
Size.....**Inches**
1¼x1¼, 1½x1¼,
1½x1½, 2x1½, 2x2



C 33988

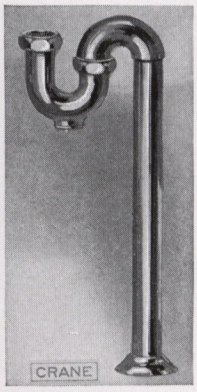
Crane cast brass adjustable swivel pattern "P" trap with cleanout and female iron pipe outlet.

Size.....**Inches**
1¼x1¼, 1½x1¼, 1½x1½



C 33920

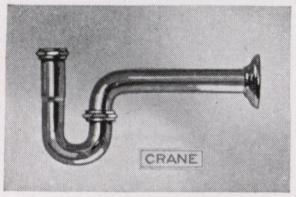
Crane Brass Sediment and Hair Intercepting Trap. Non-siphoning. Has plug in bottom for removing perforated sheet brass strainer. 1½-inch slip inlet and 1½-inch iron pipe swivel elbow outlet. Inlet requires 9-inch long tailpiece. This Intercepting Trap is ideal for Beauty Parlors, Barber Shops and Public Buildings.



C 33910

Crane cast brass adjustable swivel pattern "S" trap with cleanout, tubing waste to floor, and pressed escutcheon.

Size.....**Inches**
1¼x1¼, 1½x1¼, 1½x1½
Lengths 20½ or 26½ inches.

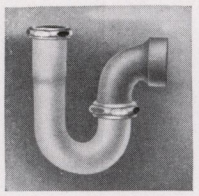


C 33930

Bent brass tube "P" trap with tubing waste to wall and escutcheon.

Furnished in 17 or 20 gauge.

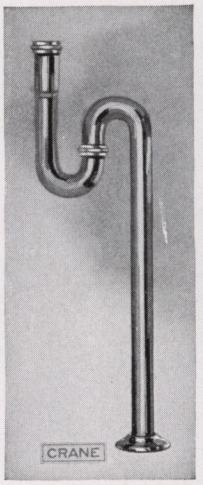
Size.....**Inches** 1¼ 1½
If wanted with cleanout, specify C 33982.



C 33987

Rough N. P. bent tube adjustable "P" trap with female iron pipe outlet.

Size.....**Inches** 1¼ 1½
Also furnished with cleanout.

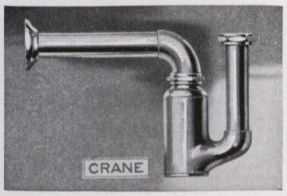


C 33990

Bent brass tube "S" trap with tubing waste to floor and escutcheon.

Furnished in 17 or 20 gauge.

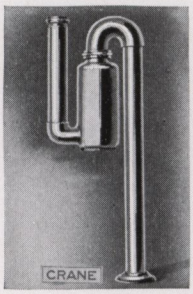
Size.....**Inches**
1¼, 1½
Lengths 20½ or 26½ inches.
If wanted with cleanout, specify C 33992.



C 34152

Cast brass anti-siphon "P" trap with cleanout and tubing waste to wall.

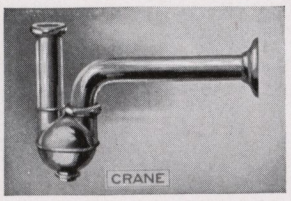
Size.....**Inches** 1¼ 1½



C 34153

Cast brass anti-siphon "S" trap with cleanout and tubing waste to floor.

Size.....**Inches** 1¼ 1½



C 34163

Anti-siphon "P" trap with cleanout and tubing waste to wall.

Size.....**Inches** 1¼ 1½



C 34165

Anti-siphon "S" trap with cleanout and tubing waste to floor.

Size.....**Inches** 1¼ 1½

BRASS GOODS

BUSHINGS



C 34220

CAST BRASS FLUSH BUSHING

Size.....Inches	
Iron Pipe	Bore, O. D.
1 1/4	1 1/4
1 1/4	1 3/8
1 1/2	1 1/4
1 1/2	1 3/8
1 1/2	1 1/2



C 34222

CAST BRASS HEXAGON BUSHING

Size.....Inches	
Iron Pipe	Bore O. D.
1 1/4	1 1/4
1 1/4	1 3/8
1 1/2	1 1/4
1 1/2	1 3/8
1 1/2	1 1/2
2	1 1/2
2	2

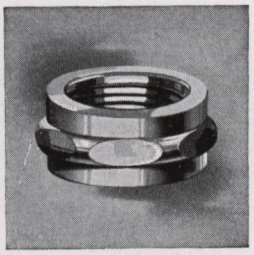


C 34224

CAST BRASS SLIP JOINT WASTE CONNECTION

Size..... Inches	
Iron Pipe	Slip O. D.
1 1/4	1 1/4
1 1/2	1 1/4
1 1/2	1 3/8
1 1/2	1 1/2

Can also be furnished with female I. P. thread.



C 34240

CAST BRASS SLIP JOINT NUT WITH FRICTION RING AND RUBBER GASKET

Size..... Inches	
Iron Pipe	Slip O. D.
3/8	7/16
1/2	9/16
3/4	27/32
1	1
1 1/4	1 1/4
1 1/2	1 1/4
1 1/2	1 3/8
1 1/2	1 1/2
2	2

METAL ESCUTCHEONS



C 34252

Wrought brass saw tooth wall or floor escutcheons.

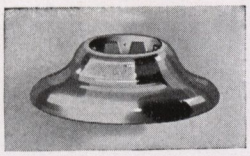
Size.....Inches
For I. P. S.
3/8, 1/2, 1 1/4, 1 1/2
Slip O. D. Tubing
7/16, 9/16, 1 1/4, 1 1/2



C 34260

Crane cast brass set screw wall or floor escutcheons.

Size.....Inches
For I. P. S.
3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2
Slip O. D. Tubing
1 1/4, 1 1/2

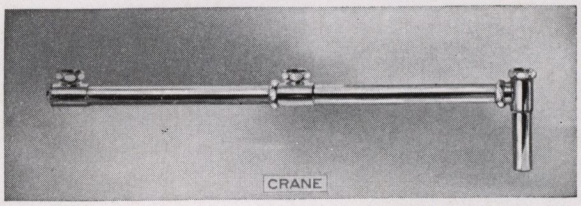


C 34261

Crane pressed brass saw tooth escutcheons.

Size.....Inches
For I P. S.
3/8, 1/2, 3/4, 1 1/4, 1 1/2, 2
Slip O. D. Tubing
1 1/4, 1 1/2

CONTINUOUS WASTES FOR LAVATORIES, LAUNDRY TUBS AND SINKS



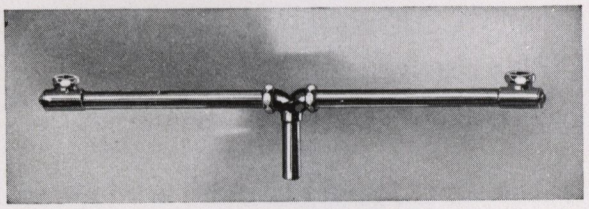
C 34281

FOR THREE BASINS, OUTLET ON END

Continuous wastes, less plugs, 24 inches center to center of inlets. 1 1/4-inch O. D. run with 1 1/4-inch O. D. inlets and 1 1/4 or 1 1/2 inch outlet.

Also furnished 1 1/2-inch O. D. run with 1 1/4 or 1 1/2-inch O. D. inlets and 1 1/2-inch outlet.

1 1/2-inch O. D. Two part (For C-19356 Sink)



C 34291-A

FOR TWO BASINS, OUTLET IN CENTER

Continuous wastes, less plugs, 24 inches center to center of inlets. 1 1/4-inch O. D. run with 1 1/4-inch O. D. inlets and 1 1/4 or 1 1/2 inch outlet.

Also furnished 1 1/2-inch O. D. run with 1 1/4 or 1 1/2-inch O. D. inlets and 1 1/2-inch outlet.

1 1/2-inch O. D. Two part (For C-19356 Sink).

CAST BRASS SLIP JOINT AND FINE THREAD FITTINGS



C 34330
90° FINE THREAD ELBOW

Size Inches
1¼
1½



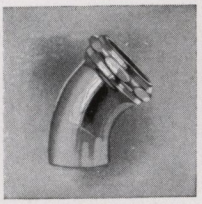
C 34332
45° FINE THREAD ELBOW

Size Inches
1¼
1½



C 34334
90° FINE THREAD AND SLIP JOINT ELBOW

Size Inches
1¼
1½



C 34336
45° FINE THREAD AND SLIP JOINT ELBOW

Size Inches
1¼
1½



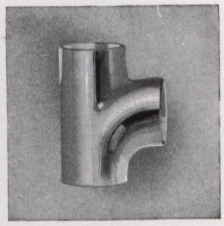
C 34337
45° SLIP JOINT ELBOW

Size Inches
1¼
1½



C 34338
90° SLIP JOINT ELBOW

Size Inches
1¼
1½



C 34340
FINE THREAD TEE

Size Inches
1¼
1½



C 34342
FINE THREAD AND SLIP JOINT TEE

Size Inches
1¼
1½



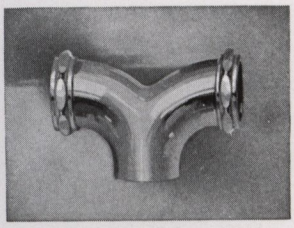
C 34344
FINE THREAD AND SLIP JOINT TEE

Size Inches
1¼
1½



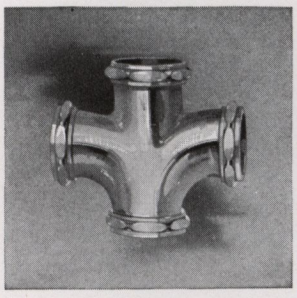
C 34346
SLIP JOINT TEE

Size Inches
1¼
1½



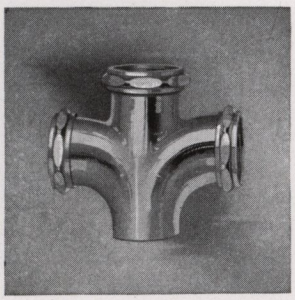
C 34348
SLIP JOINT AND FINE THREAD TWIN ELBOWS

Size Inches
1¼
1½



C 34349
SLIP JOINT SANITARY CROSS

Size Inches
1¼
1½



C 34350
FINE THREAD AND SLIP IOINT SANITARY CROSS

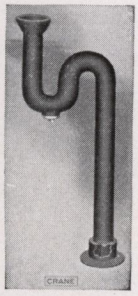
Size Inches
1¼
1½



C 34352
CAP FOR WASTE FINE THREAD

Size Inches
1¼
1½

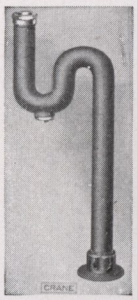
CAST IRON TRAPS AND DRUM TRAPS



C 34400

Cast iron "S" trap with sink collar, brass cleanout plug and female outlet. 24 inches long.

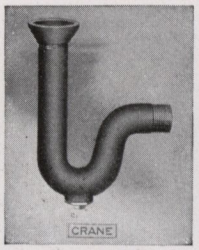
Size.....**Inches** 1¼ 1½
Painted or Galvanized.



C 34402

Cast iron "S" trap with N. P. slip joint inlet, brass cleanout plug and female outlet. 24 inches long.

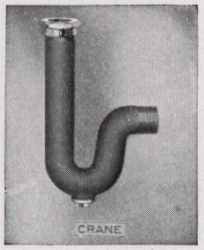
Size.....**Inches** 1¼ 1½
Painted or Galvanized.



C 34406

Cast iron "P" trap with sink collar, brass cleanout plug and male outlet.

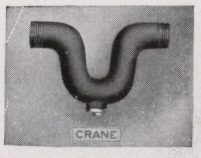
Size.....**Inches** 1¼ 1½
Painted or Galvanized.



C 34408

Cast iron "P" trap with N. P. slip joint inlet, brass cleanout plug and male outlet.

Size.....**Inches** 1¼ 1½
Painted or Galvanized.



C 34446

Cast iron running trap with brass cleanout plug and male inlet and outlet.

Size.....**Inches** 1¼ 1½ 2
Painted or Galvanized.



C 34448—No. 1059

Crane cast iron drainage "P" trap with cleanout plug.

Size, In.....1¼ 1½ 2 3 4
Cleanout, In. ¾ 1 1 1¼ 2
Black or Galvanized.



C 34450

Cast iron bottle trap with brass cleanout plug and female inlet and outlet.

Size.....**Inches** 1¼ 1½
Black or Galvanized.



C 34452

Cast iron bottle trap with brass cleanout plug, N. P. slip joint inlet and female outlet.

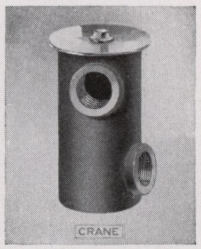
Size.....**Inches** 1¼ 1½
Black or Galvanized.

CAST IRON DRUM TRAPS



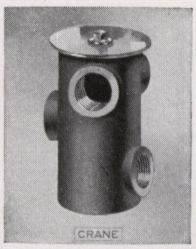
C 34470

Painted cast iron drum trap with brass cover. 2 openings, tapped 1½ or 2 inch. 4″ dia. x 8½″ long.



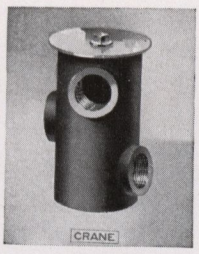
C 34472

Painted cast iron drum trap with brass cover. 2 openings, tapped 1½ or 2 inch. 4″ dia. x 8½″ long.



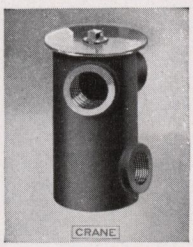
C 34474

Painted cast iron drum trap with brass cover. 4 openings, tapped 1½ or 2 inch. 4″ dia. x 8½″ long.



C 34476

Painted cast iron drum trap with brass cover. 3 openings, tapped 1½ or 2 inch. 4″ dia. x 8½″ long.



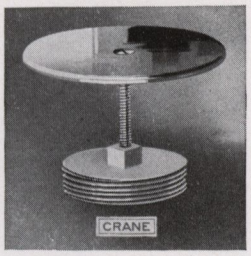
C 34478

Painted cast iron drum trap with brass cover. 3 openings, tapped 1½ or 2 inch. 4″ dia. x 8½″ long.



C 34490

Painted cast iron drum trap with brass cover. Tapped 1½-inch side and bottom. 4¼″ dia. x 5¼″ high.

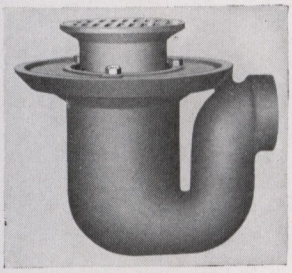


C 34494

Aluminum extension drum trap floor flange With brass plug and screw.

DRAINS

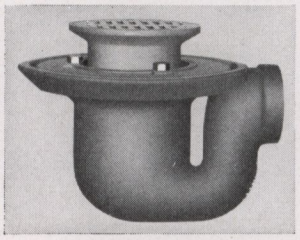
FOR SHOWER OR URINAL STALLS, FLOOR OR AREA-WAY, ROOF OR GUTTER



C 34550

Deep pattern combination floor drain and trap with brass strainer and clamping device for flashing. For urinals, showers and floors. Iron pipe outlet.

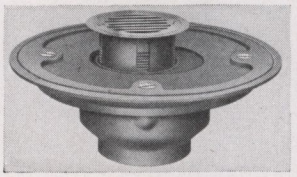
Outlet Inches	Diam. Strainer Inches
1½	4, 5, 6
2	4, 5, 6
3	5, 6, 8
4	5, 6, 8



C 34552

Shallow pattern combination floor drain and trap with brass strainer and clamping device for flashing. For urinals, showers and floors. Iron pipe outlet.

Outlet Inches	Diam. Strainer Inches
1½	4, 5, 6
2	4, 5, 6
3	6, 8



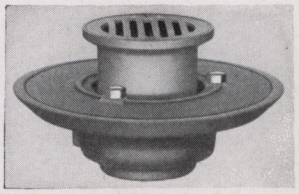
C 34556

Eccentric urinal drain with brass strainer and clamping device for flashing. Strainer has 1½-inch horizontal variation alignment. 4½-inch diam. strainer with 2 or 3-inch I. P. Outlet.

C 34554

Same as C 34556, except with cast iron side outlet trap in combination.

Can be furnished with beehive strainer.

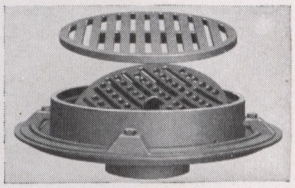


C 34558

Adjustable floor drain with brass strainer and clamping device for flashing. For receptors, tile, mosaic, terrazo, or concrete floors, gutters, etc Iron pipe outlet.

Outlet Inches	Diam. Strainer Inches
1½	4, 5, 6
2	4, 5, 6
3	4, 5, 6
4	5, 6, 8

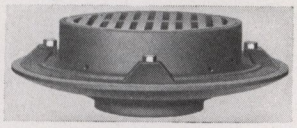
The above drains can also be furnished with hub outlet for calking.



C 34580-A

Extra heavy floor drain with secondary strainer and anti-tilting grate. Made to stand heavy trucking over the grate. Iron pipe outlet.

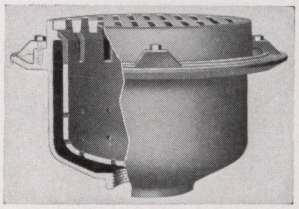
Diam Strainer Inches	Outlet Inches
11	2, 3, 4
14	4, 5, 6, 8



C 34582

Cesspool drain for area-way, deck or floor, with anti-tilting grate and clamping device for flashing. Iron pipe outlet.

Diam Strainer Inches	Outlet Inches
8	2, 3, 4
11	4, 5, 6

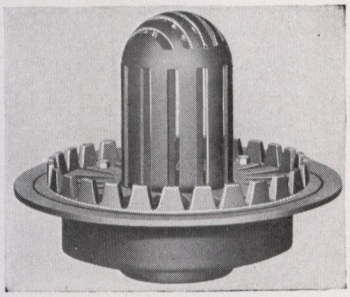


C 34588

Extra heavy double service floor drain with removable anti-freeze sediment pot and clamping device for flashing. For use in basements, coal yards, garages, factories, breweries, etc. Iron pipe outlet.

Diam Strainer Inches	Outlet Inches
11	2, 3,4

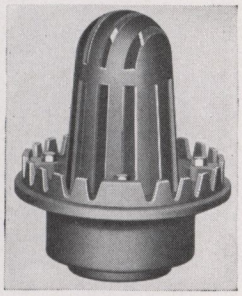
The above drains can also be furnished with square top, with brass strainers, or with hub outlet.



C 34604

Roof drain with removable non-tilting dome strainer with integral clamping device and gravel guard. For smooth surface, gravel or slag roofs. Iron pipe outlet.

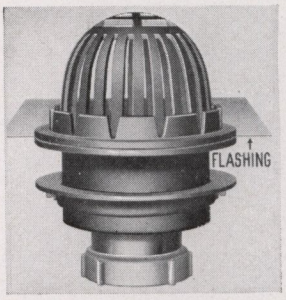
Size of Outlet.....**Inches 2, 3, 4, 5, 6, 8**



C 34606

Valley gutter roof drain with removable dome strainer for metal formed gutters, roofs and decks. With clamping device for flashing and iron pipe outlet. 8-inch diameter top.

Size of Outlet.....**Inches 2, 3, 4, 5**



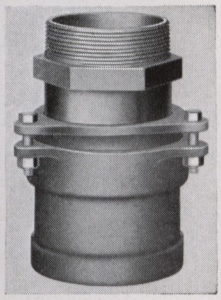
C 34617

Combination roof drain with brass expansion sleeve and threaded hexagon coupling. Inside clamping collar with graphite asbestos ring packing and removable dome strainer. For various types of roof construction. Iron pipe outlet.

Size of Outlet.....**Inches 2, 3, 4, 5, 6**

Can also be furnished with brass dome strainer.

The above drains can also be furnished with brass dome strainer, square top, side outlet or hub connection.



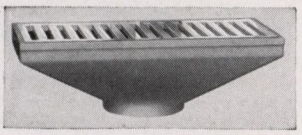
C 34619

Expansion Joint for roof drains. Cast iron body with pipe size brass expansion sleeve and graphited asbestos packing rings.

Size, Inches 2, 3, 4, 5, 6, 8

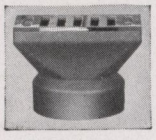
Can also be furnished for threaded pipe and with galvanized or brass body.

C 34619



C 34695

Cast iron floor or gutter drain with iron pipe outlet. Top—5½x13 inches; Outlet—2, 3 or 4 inches. For narrow gutters. Can also be furnished with brass strainer.

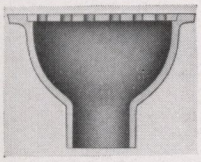


C 34698

Brass swimming pool or gutter drain with iron pipe outlet.

Size of Top.....**Inches**	3¾x2¼	5⅜x2½	5⅜x2½
Size of Outlet....**Inches**	2	2½	3

CESSPOOLS AND DRAINS

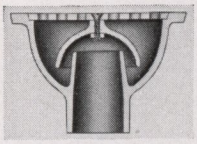


C 34622

Cast iron cesspool with loose strainer, without bell trap. Spigot outlet.

Size	Inches	6x6	9x9	12x12
Outlet	Inches	2	3	4

Standard or extra heavy weight.



C 34623

Cast iron cesspool with loose strainer, with bell trap Spigot outlet

Size	Inches	6x6	9x9	12x12
Outlet	Inches	2	3	4

Standard or extra heavy weight.



C 34624

Cast iron cesspool with hinged strainer, without bell trap Spigot outlet.

Size	Inches	6x6	9x9	12x12
Outlet	Inches	2	3	4

Standard or extra heavy weight.



C 34626

Cast iron cesspool with hinged strainer, with bell trap Spigot outlet

Size	Inches	6x6	9x9	12x12
Outlet	Inches	2	3	4

Standard or extra heavy weight.

NOTE· The above cesspools can also be furnished as follows: Galvanized; Iron body with brass top and strainer; all cast brass. Also furnished with inside hub for caulking or tapped female for iron pipe

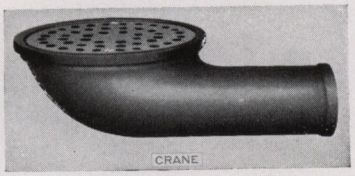


C 34642

Cast iron cesspool with hinged strainer, with bell trap Side spigot outlet.

Size	Inches	6x6	9x9	13x13
Outlet	Inches	2	3	4

Also furnished with loose strainer and galvanized or iron body with brass top and strainer.



C 34650

Cast iron area-way drain with perforated strainer and spigot outlet.

Size top	Inches	8	10	12
Depth overall	Inches	4½	6	6¾
Outlet	Inches	2	3	4



C 34660

Cast iron combined floor drain and trap. Iron body with brass top and perforated strainer.

Top	Inches	8	10	10	12
Depth	Inches	8	11	11	11
I. P. Outlet	Inches	2	3	4	4

Can be furnished with hub outlet for soil pipe. Also furnished with brass body

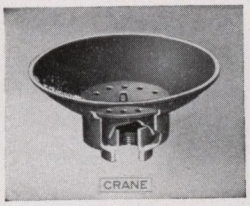


C 34682

Cast iron combined floor drain and trap, with adjustable brass head and removable strainer.

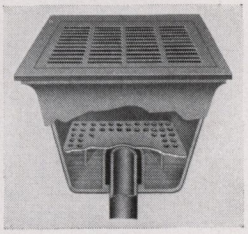
Strainer	Inches	5
Height of Body	Inches	6
I. P. Outlet	Inches	2

Furnished with polished brass, nickel or chromium plated strainer.



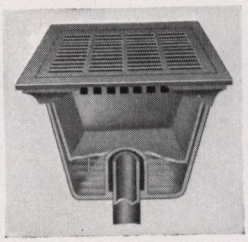
C 34722

Refrigerator drain Round pattern. 8 inches diameter, outlet tapped 1, 1¼ or 1½-inch. Aluminum painted.



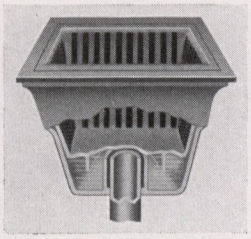
C 34746

Cast iron garage drain with top grate, square perforated inside strainer and bell trap. Hub outlet for inside caulking.



C 34747

Cast iron garage drain with top grate, sediment bucket and bell trap. Hub outlet for inside caulking.

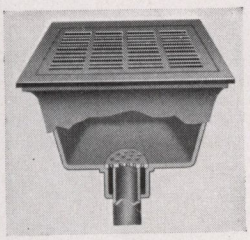


C 34748

Cast iron slop hopper with basket strainer and bell trap Hub outlet for inside caulking.

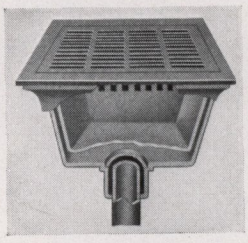
Size of top	Inches	12x12	14x14	16x16
Depth	Inches	8½	9	10
Outlet	Inches	2, 3 or 4	2, 3 or 4	2, 3 or 4

Can also be furnished with brass top



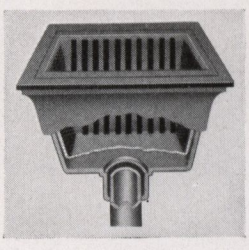
C 34751

Cast iron garage drain with top grate and round perforated inside strainer. Hub outlet for inside caulking.



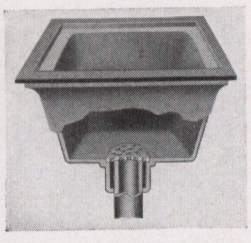
C 34752

Cast iron garage drain with top grate and sediment bucket. Hub outlet for inside caulking.



C 34753

Cast iron slop hopper with basket strainer. Hub outlet for inside caulking.



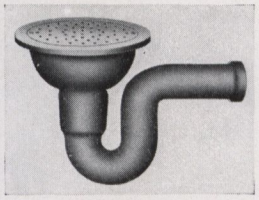
C 34754

Cast iron hydrant cesspool with round perforated inside strainer. Hub outlet for inside caulking.

Size Top Inches	Depth Inches	Depth of Hub Inches	Outlet Inches
12x12	6	3¼	2, 3 or 4
16x16	6	3¼	4, 6 or 8

Can also be furnished with brass top

FLOOR DRAINS AND BACKWATER TRAPS

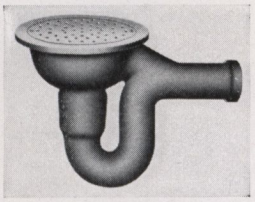


Cast iron combination floor drain and trap. No cleanout. Spigot outlet for soil pipe.

C 34818—With Backwater Valve

C 34819
Plain Drain

Size Outlet Inches	Water Seal Inches	Diam. of Top Inches	Depth Overall Inches	Length Overall Inches
2	4	8	11	14½
3	4	10¼	13	18
4	4	12	15	21½

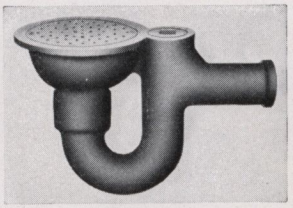


Cast iron combination floor drain and trap. Inside brass cleanout plug and spigot outlet for soil pipe.

C 34820—With Backwater Valve

C 34822
Plain Drain

Size Outlet Inches	Water Seal Inches	Diam. of Top Inches	Depth Overall Inches	Length Overall Inches
2	3	7¾	9	13½
2	3	8	10	13½
2	4	8	11	14½
3	4	10¼	13	18
4	4	12	15	21½



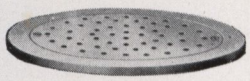
Cast iron combination floor drain and trap. Brass cleanout plug at floor level and spigot outlet for soil pipe.

C 34833—With Backwater Valve

C 34835
Plain Drain

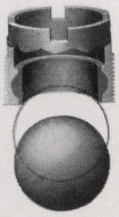
Size Outlet Inches	Water Seal Inches	Diam. of Top Inches	Depth Overall Inches	Length Overall Inches
2	3	8	10	14½
2	4	8	11	14½
3	4	10¼	13	18
4	4	12	15	21½

All drains can be furnished with brass top and strainer. Can also be furnished with outlet tapped for iron pipe as follows: 2-inch drains tapped 1¼, 1½ or 2-inch; 3-inch drains tapped 2½ or 3 inch; 4-inch drains tapped 3 or 4 inch.



C 34827—Cast Brass Top
(Rim and Strainer)

These brass tops are made to fit and are interchangeable with drains described above. Attachment is made by removing iron rim and replacing it with the brass rim which bolts in place in the same holes. Brass strainer is provided with brass screws to bolt to rim. Special top must be furnished for C 34833 and 35 drains.



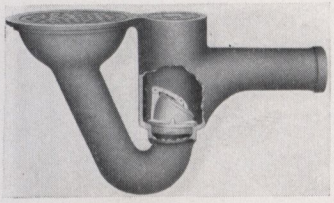
BRASS BODY

RUBBER SEAT

COPPER FLOAT

These insertable Backwater valves are made in sizes to fit drains described above.

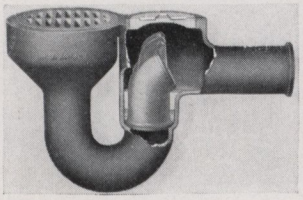
C 34829—Backwater Valve



Cast iron combination drain and trap with brass swing check back water valve, cleanout plug flush with floor; spigot outlet.

C 34837

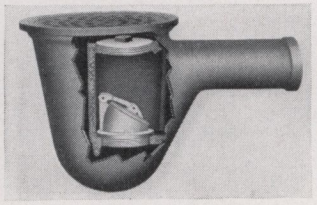
Diam. of Top Inches	Size Outlet Inches	Depth of Seal Inches	Depth Overall Inches	Length Overall Inches
8	2	4	11	19¾
10	3	4	13	24
12	4	4½	15½	27



Cast iron combination drain and trap with brass swing check back water valve, brass cleanout plug and spigot outlet.

C 34838

Diam. of Strainer Inches	Outlet Inches	Depth of Seal Inches
8	2	4
8	3	5
8	4	5

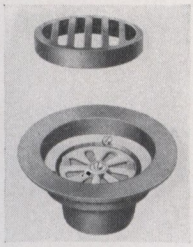


Cast iron combination floor drain and trap with brass swing check back water valve and concealed cleanout.

C 34862

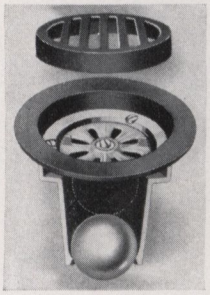
Diam. of Top Inches	Depth Overall Inches	Water Seal Inches	Size Outlet Inches
8	9	3	2
10	12	3	3
12	14	3	4

THE DIXIE-DUFFY "DOUBLECHECK" AREA DRAIN



C 34870

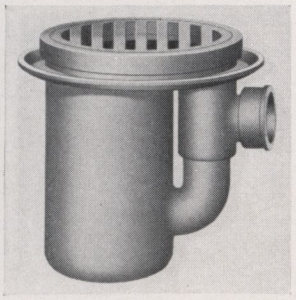
Cast iron combination single valve floor drain to caulk into hub of 4 or 6-inch soil pipe. Has removable grate and brass shutoff valve.



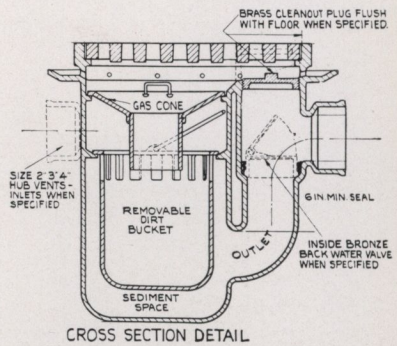
C 34872

Cast iron combination double valve floor drain to caulk into hub of 4 to 6-inch soil pipe. Has removable grate, brass shut-off valve and copper float ball with rubber seat.

GARAGE SEDIMENT FLOOR DRAINS



C 34880-A



CROSS SECTION DETAIL

Double drainage combined drain and deep seal trap. Drain head equipped with oversize extra heavy cast iron non-tilting bar slotted manhole type grate, 18½ inches diameter; accessible threaded brass cleanout plug. Regularly furnished in black cast iron equipped with gas seal deflector cone and removable inside sediment bracket. 4-inch hub outlet.
Can be furnished for floor slab thickness of 4, 6, 8, 10 and 12 inches.
Can be furnished all galvanized or with brass top.
Can be furnished with brass back water valve when so ordered.
Clamping flanges for lead flashing can be furnished.

This drain is ideal for garages, vehicle washrooms, truck service runways, breweries, laundries, dairies, factory floors, packing houses, stables and stock barns. Total weight 350 pounds.

PHILLIPS AUTOMATIC TRAP SEAL VALVE

(PATENTED)

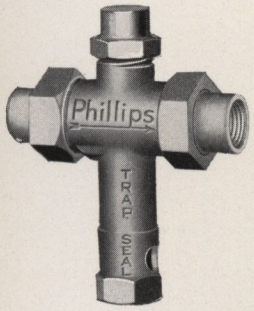
The Phillips Automatic Trap Seal Valve is a device that replenishes fresh water seals in floor drain traps that are lost through evaporation.

Sealing off sewer gas and vermin by trap has been a practice for years. Only recently, however, has it been generally realized that the water seal of many traps evaporates, thereby destroying the barrier between the gases generated in the sewer system and the interior of a building.

The air in sewers and drains often contains gases resulting from the decomposition of excretia, soap, fats and other wastes, together with gases from mineral oils which may come from garages, industrial establishments, etc. Illuminating gas frequently finds its way into sewers through leakage. In large amounts these gases are poisonous and there are physiological objections to breathing them even in small quantities. Violent explosions in sewerage systems bear testimony to the dangers of sewer air.

Clean air is essential to life, and the Phillips Automatic Trap Seal Valve assures safety against sewer gas by insuring a permanent fresh water seal in the floor drain trap.

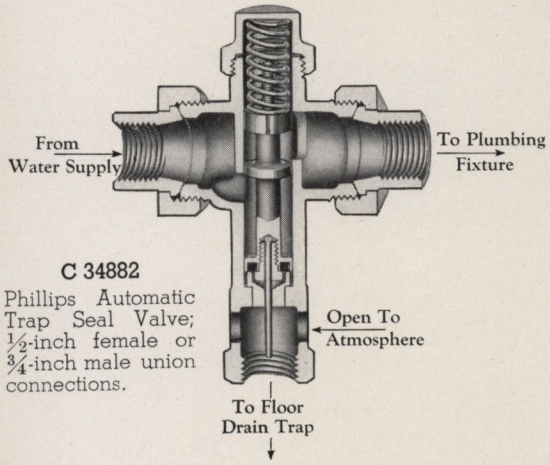
It is known that back pressure in venting systems produces oscillation of the water in traps and brings about evaporation, frequently much under the time generally accorded it. This is but one of many causes of evaporation. Therefore, to insure a constant fresh water seal, the priming of floor drain traps is desired.



It is installed in some cold water supply line running to a frequently used fixture, such as a kitchen sink or water closet. The Phillips trap seal valve opens automatically when water is drawn at the plumbing fixture and delivers a small amount of water through a pipe extending to the floor drain. The trap seal valve closes when the flow through the line stops, thus avoiding any waste of water.

The trap seal valve discharges approximately ⅔ of a pint of water per minute at 50 pounds of pressure. In an average family of four it uses less than a gallon of water per day.

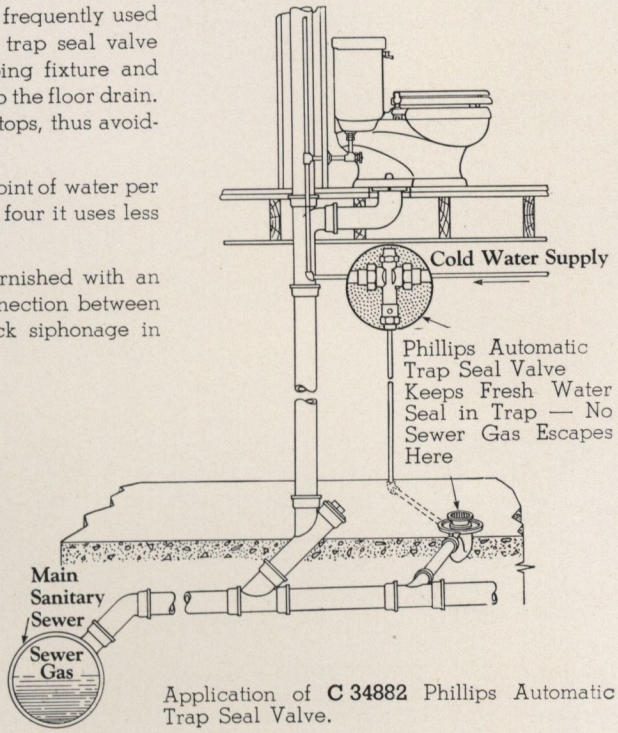
The drain connection of the Phillips trap seal valve is furnished with an opening to the atmosphere. This eliminates a sealed connection between the supply line and drain, preventing any danger of back siphonage in the event a vacuum occurs in the supply line.



C 34882

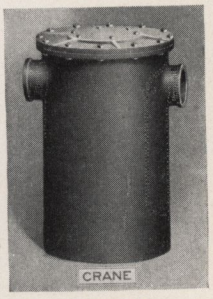
Phillips Automatic Trap Seal Valve; ½-inch female or ¾-inch male union connections.

Cellar floor drain traps are used in every type of construction, be it home, office or municipal building, market or garage, or public institution, such as hospital, school, auditorium or church, and needs the health protection that the Phillips Automatic Trap Seal Valve affords.



Application of **C 34882** Phillips Automatic Trap Seal Valve.

CAST IRON BLOWOFF, GRAVEL AND DRAINAGE CATCH BASIN



C 34890

Diameter Inches	Depth Inches	Approx. Shipping Wt. Pounds	Diameter Inches	Depth Inches	Approx. Shipping Wt. Pounds
16	16	222	24	30	540
	20	245		36	605
	24	270		42	665
				48	725
18	18	270	30	30	770
	24	310		36	855
	30	350		42	940
	36	400		48	1026
				54	1112
				60	1196
20	20	310	36	36	1110
	24	345		42	1210
	30	380		48	1310
	36	440		54	1410
				60	1510
				72	1800

Cast iron blowoff, gravel and drainage catch basin with combination 4-inch inlet and outlet for soil or screwed pipe connections; with seal on outlet and manhole in cover, 3-inch vent on 16, 18 and 20-inch diameters, 4-inch vent on larger diameters.

PRICE LIST APPLYING TO No. 675-C CATALOG

Prices given below will be helpful in approximating costs, or comparing the cost of one fixture with another. They do not include piping, labor, and other installation costs.

ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE				
	SINK FAUCETS *TELSA*	Size	Rough Brass Each	Finish Brass Each	Nickel Plated Each	Chrom Plated Each
85-1	C 31102, Plain	½	$ 0.50	$ 0.65	$ 0.70	$ 0.80
		¾	.60	.75	.85	.95
		1	1.25	1.55	1.70	1.85
	C 31103, Hose	½	.60	.75	.80	.90
		¾	.75	.85	.95	1.05
		1	1.50	1.75	1.90	2.10
	C 31106, Plain	½	.....	.....	1.00	1.00
		¾	.....	.....	1.10	1.25
	C 31107, Hose	½	.....	.....	1.00	1.10
		¾	.....	.....	1.10	1.35
	C 31140, Plain	½	.....	.85	.85	.95
		¾	.....	1.00	1.00	1.10
	C 31141, Hose	½	.....	.95	.95	1.05
		¾	.....	1.15	1.15	1.25
	C 31144, Plain	½	.....	.....	1.15	1.25
		¾	.....	.....	1.35	1.50
	C 31145, Hose	½	.....	.....	1.25	1.40
		¾	.....	.....	1.45	1.60
	C 31160, Plain	½	.....	.....	.85	.95
		¾	.....	.....	1.00	1.10
	C 31161, Hose	½	.....	.....	.95	1.05
		¾	.....	.....	1.15	1.25
	C 31164, Plain	½	.....	.....	1.30	1.40
		¾	.....	.....	1.55	1.70
	C 31165, Hose	½	.....	.....	1.40	1.50
		¾	.....	.....	1.65	1.80
	C 31180, Plain	½	.65	.80	.85	.95
		¾	.80	.95	1.00	1.10
	C 31181, Hose	½	.75	.90	.95	1.00
		¾	.90	1.00	1.10	1.15
	C 31220, Plain	½	.....	1.05	1.05	1.15
		¾	.....	1.25	1.25	1.35
	C 31221, Hose	½	.....	1.15	1.15	1.25
		¾	.....	1.35	1.35	1.50
	C 31224, Plain	½	.....	.....	1.30	1.45
		¾	.....	.....	1.55	1.70
	C 31225, Hose	½	.....	.....	1.45	1.55
		¾	.....	.....	1.65	1.85
	C 31240—N, Plain	½	.....	1.05	1.05	1.15
		¾	.....	1.25	1.25	1.35
	C 31241—N, Hose	½	.....	1.15	1.15	1.25
		¾	.....	1.35	1.35	1.50
	C 31244—N, Plain	½	.....	.....	1.30	1.45
		¾	.....	.....	1.55	1.70

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE			
	SINK FAUCETS	Size	Finish Brass Each	Nickel Plated Each	Chrom Plated Each
85-1	C 31245—N, Hose	½	.....	$ 1.45	$ 1.55
		¾	.....	1.65	1.85
	C 31254—N, Plain	½	.....	1.45	1.60
		¾	.....	1.70	1.85
	C 31255—N, Hose	½	.....	1.55	1.70
		¾	.....	1.80	1.95
	C 31298, Plain	½	$ 0.70	.75	.80
		¾	.80	.90	1.00
	C 31299, Hose	½	.80	.85	.95
		¾	.95	1.05	1.15
	For Loose Key Add		.....	.15	.....
	AGILIS				
85-2	C 31332, Plain	½	.80	.85	.95
		¾	.95	1.05	1.15
	C 31333, Hose	½	.90	.95	1.05
		¾	1.05	1.15	1.25
	C 31342, Plain	½	.....	1.05	1.15
		¾	.....	1.25	1.35
	C 31343, Hose	½	.....	1.15	1.25
		¾	.....	1.35	1.50
	C 31362, Plain	½	.....	1.00	1.10
		¾	.....	1.15	1.35
	C 31363, Hose	½	.....	1.10	1.20
		¾	.....	1.30	1.45
	C 31382, Plain	½	.....	1.25	1.35
		¾	.....	1.45	1.60
	C 31383, Hose	½	.....	1.35	1.50
		¾	.....	1.55	1.75
	C 31392—N, Plain	½	.....	1.25	1.35
		¾	.....	1.45	1.60
	C 31393—N, Hose	½	.....	1.35	1.50
		¾	.....	1.55	1.75
	IMPROVED TRIUMPH (Self-Closing)				
	C 31550—A	½	.....	2.15	2.35
	C 31554—A	½	.....	2.15	2.35
	C 31570—A	½	.....	2.45	2.70
	C 31574—A	½	.....	2.45	2.70

PRICE LIST APPLYING TO No. 675-C CATALOG

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PAGE	PLATE NUMBER AND DESCRIPTION	Size	PRICE Finish Brass Each	Nickel Plated Each	Chrom. Plated Each
	SINK FAUCETS (Cont'd)				
	BOSTON (Self-Closing)				
85-2	C 31581	½	$1.60	$1.60	$1.75
	C 31585	½	.....	1.95	2.15
	C 31586	½	.....	2.05	2.25
	BOSTON (Compression)				
	C 31601	½	.....	1.70	1.85
	C 31605	½	.....	2.05	2.25
	C 31606	½	.....	2.15	2.35

PAGE	LAUNDRY TUB FAUCETS	Size	Rough Nickel Each	Rough Chrom. Each	Pol. Nickel Each	Pol. Chrom. Each
86-1	C 31710, Male	½	$ 0.50	$ 0.55	$ 0.70	$ 0.75
	C 31711, Male, Hose	½	.55	.60	.75	.85
	C 31730, Female	½ ¾	.50 .55	.55 .60	.70 .75	.75 .85
	C 31731, Fem. Hose	½ ¾	.55 .60	.60 .65	.75 .85	.85 .90
	C 31742	½	2.70	.....	.....	.....
	C 31746-E	½	2.70	.....	.....	.....
	C 31746-P	½	2.70	.....	.....	.....
	C 31746-S	½	2.40	.....	.....	.....
	C 31748-S	½	3.30	.....	.....	.....

PAGE	LAVATORY FAUCETS		Nickel Plated	Chrom. Plated
86-2	C 31804, *Improved Telsa*	Pr.	$ 3.00	$ 3.15
	C 31806, *Improved Telsa*	Pr.	3.00	3.15
	C 31843—RN, *Telsa Jr.*	Pr.	2.15	2.25
	C 31845—RN, *Telsa Jr.*	Pr.	2.15	2.25
	C 31851, *Rival*	Pr.	1.75	1.95
	C 31902—N, *Improved Agilis*, Double	Ea.	.....	7.95
	C 31906—N, *Improved Agilis*, Double	Ea.	.....	7.50
	C 31920, *Improved Agilis*	Pr.	3.00	3.15

PAGE	PLATE NUMBER AND DESCRIPTION		PRICE Nickel Plated	Chrom. Plated
	LAVATORY FAUCETS (Cont'd)			
86-2	C 31932—RN, *Agilis Jr.*	Pr.	$ 2.15	$ 2.25
	C 31938, *Rival*	Pr.	1.75	1.95
	C 31952—N, *Agilis*	Pr.	3.30	3.50
	SELF-CLOSING FAUCETS			
	C 31955, *Metro*, Slow Closing	Pr.	5.65	6.25
	C 31960—R, *Improved Triumph*	Pr.	6.05	6.40
	C 31964—R, *Improved Triumph*	Pr.	6.05	6.40
	C 31966—R, *Improved Triumph*	Pr.	6.90	7.25
	C 31970—R, *Improved Triumph Jr.*	Pr.	4.40	4.65
	C 31974—R, *Improved Triumph Jr.*	Pr.	4.40	4.65
	C 31976—R, *Improved Triumph Jr.*	Pr.	5.25	5.50
	C 31984, *Boston*, Cam Action	Pr.	4.40	4.65
	COMPRESSION Self-Closing Pattern			
	C 31990—R, *Imp. Duo* (Triumph Pat.)	Pr.	6.90	7.25
	C 31992—R, *Duo Jr.* (Triumph Jr. Pat.)	Pr.	5.50	5.90
	C 31998, *Boston*, Pattern	Pr.	4.40	4.65
	LEVER ACTION SECURO COMBINATION FIXTURES METAL SPOUT			
87-1	C 32106—A, Slip Joint Inlets		.....	14.70
	C 32107—A, Iron Pipe Inlets		.....	14.70
	C 32109, Slip Joint Inlets		.....	14.70
	C 32110, Iron Pipe Inlets		.....	14.70
	C 32110, Design 40		.....	22.55
	C 32110, Design 45		.....	44.75
	C 32114—A, Lever Handles, S. J. Inlets		.....	14.70
	C 32115—A, Lever Handles, I. P. Inlets		.....	14.70
	C 32115—A, Design 40, Lever Handles		.....	22.55
	C 32115—A, Design 50, Crystal Handles		.....	25.00
	INTEGRAL SPOUT			
	C 32120 to 35		Price on Appl.	
87-2	C 32219, with Spray Head		.....	$17.25

PRICE LIST APPLYING TO No. 675-C CATALOG

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PAGE	PLATE NUMBER AND DESCRIPTION	PRICE
		Chrom. Plated
	INTEGRAL SPOUT (Cont'd)	
87-2	C 32221, with Plain Nozzle	$16.45
	C 32249, with Ice Water Feature	18.30
	RAINIER COMBINATION FIXTURE	
	C 32282, with Offset Reducers	7.70
	RIVAL COMBINATION FIXTURES	
	C 32284—R, Indirect Lift	7.90
	COMBINATION FIXTURES	
88-1	C 32286, with Ice Water Feature	16.70
	C 32288—A, with Plain Nozzle	11.05
	C 32290—A, with Spray	11.90
	C 32292, with Low Pattern Spout	11.65
	C 32293, with Arm Action Handles	12.20
	LAVATORY WASTES	
	C 32359, *Lever Action Securo*	5.00
	C 32380—M, *Rival*, Through Slab	3.30
	C 32381—M, *Rival*, Through Back	3.95
	COMBINATION FIXTURE (Self-Closing)	
	C 32385, Self-Closing Comb. Fixture	15.20
	RAINIER SUPPLY FIXTURE	
	C 32390, with Offset Reducers	5.00
	PANTRY FAUCETS	
88-3	C 32400—N, *Improved Telsa*, Tee Handle	2.50
	C 32404—N, *Improved Telsa*, 4-ball Handle	2.75
	C 32412—N, *Improved Agilis*, Lever Handle	2.75
	C 32415, *Agilis*, Lever Handle	3.95
	C 32420—A, *Imp. Triumph*, Self-Closing	4.15
	C 32462—N, *Imp. Telsa*, 4-Ball Handles	7.50
	C 32472—N, *Imp. Agilis*, Lever Handles	7.50
	C 32475, *Imp. Agilis*, Lever Handles	7.50
	C 32485, *Imp. Agilis*, Lever Handles	9.60
	KITCHEN SINK FAUCETS	
89-2	C 32734—N, *Improved Agilis*, with China Soap Dish	9.75
	C 32735—SN, *Improved Agilis*, with Metal Soap Dish	9.75

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE	
		Nickel Plated	Chrom. Plated
	KITCHEN SINK FAUCETS (Cont'd)		
89-2	C 32739—N, *Improved Agilis*, with China Soap Dish	.....	$ 9.75
	C 32740—N, *Improved Agilis*, Plain	.....	9.25
	C 32740—SN, *Improved Agilis*, with Metal Soap Dish	.....	9.75
	C 32745—A, *Rival*, with China Soap Dish	3.55	3.75
	C 32746—AS, *Rival*, with Metal Soap Dish	3.55	3.75
	C 32749—A, *Rival*, with China Soap Dish	3.55	3.75
	C 32751—A, *Rival*, Plain	3.25	3.45
	C 32751—AS, *Rival*, with Metal Soap Dish	3.55	3.75
	C 32751—ASL, *Rival*, with Metal Soap Dish and 8″ long Spout	3.75	3.95
	C 32753—A, *Rival*, with Metal Soap Dish	3.70	3.85
	C 32763—H, *Agilis*, with China Soap Dish	10.45	11.00
	C 32764—H, *Agilis*, with China Soap Dish	10.45	11.00
	C 32767—N, *Improved Agilis*, with China Soap Dish	.....	10.80
	C 32769—N, *Improved Agilis*, with China Soap Dish, Hose and Spray	.....	10.80
	SINK FAUCETS		
90-1	C 32770—N, *Improved Telsa*	6.50	7.25
	C 32780—N, *Improved Telsa*, Rough	4.50	5.00
	CONCEALED SINK FIXTURES		
	C 32846, Supply Fixture	.....	14.15
	C 32852, Supply Fixture	.....	14.75
	C 32854—A1, Supply Fixture	.....	16.30
	C 32854—A2, Supply Fixture	.....	16.75
	C 32856, Supply Fixture	.....	13.45
	C 32858, Supply Fixture	.....	15.00
	C 32860, Supply Fixture	.....	11.05
	C 32860—A2, Supply Fixture with 9″ Spout	.....	12.65
	C 32862, Supply Fixture with China Soap Dish	.....	12.70
90-2	C 32864, Supply Fixture	.....	18.05
	C 32866—A, Supply Fixture	.....	15.20
	EXPOSED SINK FIXTURES		
	C 32868, Supply Fixture	.....	12.80

PRICE LIST APPLYING TO No. 675-C CATALOG

Prices given below will be helpful in approximating costs, or comparing the cost of one fixture with another. They do not include piping, labor, and other installation costs.

ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE
	EXPOSED SERVICE SINK FIXTURES	Chrom. Plated
90-2	C 32890—N, *Improved Telsa*, Fixture, Outlet to Wall Flange 9″	$11.50
	C 32892—N, *Improved Telsa*, Fixture, Outlet to Wall Flange 9″	12.95
	C 32893—N, *Improved Telsa*, Fixture, Outlet to Wall Flange 9″ with Forked Brace	16.05
	C 32895—N, *Improved Telsa*, Fixture, Outlet to Wall Flange 9″	14.40
	C 32896—N, *Improved Telsa*, Fixture, Outlet to Wall Flange 9″ with Forked Brace	17.50
	C 32896—N, *Improved Telsa*, Fixture, Outlet to Wall Flange 14½″ with Forked Brace	20.00
	C 32898—N, *Improved Telsa*, Fixture, Outlet to Wall Flange 9″	14.40
	C 32898—N, *Improved Telsa*, Fixture, Outlet to Wall Flange 14½″	16.90
	WASH SINK FAUCETS	Rough N. P. / Rough C. P.
	C 32905, *Telsa*, Faucet	$ 3.90 / $ 4.40
	C 32910, *Telsa*, Faucet	3.80 / 4.15
	C 32911, *Telsa*, Faucet	4.25 / 4.65
	C 32912, *Telsa*, Faucet	5.00 / 5.50
	C 32913, *Telsa*, Faucet	5.50 / 6.15
91-1	C 32921, *Telsa*, Faucet	5.00 / 5.50
	C 32923, *Telsa*, Faucet	6.25 / 7.00
	C 32930, *Agilis*, Faucet	4.00 / 4.40
	C 32931, *Agilis*, Faucet	4.75 / 5.25
	C 32932, *Agilis*, Faucet	5.25 / 5.90
	C 32940—N, *Improved Telsa*, Faucet with Twin Spout	4.00 / 4.40
	ICE WATER FAUCETS	Nickel Plated / Chrom. Plated
	C 32950, Push Button Ice Water Faucet	$ 2.75 / $ 2.90
	C 32952, Push Button Ice Water Faucet with Swinging Spout	3.80 / 4.00
	SHAMPOO FIXTURES	
	C 33012—N, *Improved Agilis*, Shampoo Faucet	9.90 / 10.45
	C 33028—N, *Improved Telsa*, Shampoo Faucet	12.00 / 12.65
	C 33033—A, Concealed Shampoo Fixture	11.50 / 12.05

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE	
	SHAMPOO FIXTURES (Cont'd)	Nickel Plated	Chrom. Plated
91-1	C 33062—N, *Improved Agilis*, Shampoo Faucet	$ 9.90	$10.45
	C 33070, Quick Compression Barber Shampoo Fixture	14.55	16.30
	C 33081, Combination Lavatory and Shampoo Fixture with Swinging Spout	10.50	11.65
	C 33086, Combination Lavatory and Shampoo Fixture	10.50	11.65
	BATH FAUCETS		
91-2	C 33103—N, *Improved Telsa*, Double Faucet	.....	2.95
	C 33112, *Telsa*, Double Faucet	.....	3.55
	C 33121—N, *Improved Agilis*, Double Faucet	.....	2.95
	C 33134, *Agilis*, Front Handle Double Faucet	.....	1.80
	EXPOSED BATH FIXTURES / Size	Nickel Plated	Chrom. Plated
92-1	C 33402, Top Bell Exposed Supply and Waste Fixture (With Five-Ball Indexed All-Metal Handles and Metal Waste Knob) ½	$20.65	$21.70
	For Loose Key Stops in Supplies...Add	2.00	2.50
	For ¾″ Supplies.....Per Fixture, Add	.50	.60
	For Loose Key Stops in ¾″ Supplies Add	3.00	3.50
	CONCEALED BATH FIXTURES		
	C 33426, *Rival*, Top Nozzle ½	16.10	16.95
	C 33495, *Rival*, Overrim Spout ½	16.10	16.95
	*C 33456—E, Top Nozzle, with Unions ½	.....	23.40
	¾	.....	26.70
	*C 33466-E, Top Nozzle, no Unions.... ½	.....	23.40
	¾	.....	26.70
	*C 33456—B, Top Nozzle, with Unions ½	.....	25.00
	¾	.....	28.30
	*C 33466—B, Top Nozzle, no Unions.. ½	.....	25.00
	¾	.....	28.30
	*C 33476—E, Overrim Spout, with Unions ½	.....	23.40
	¾	.....	26.70
	*C 33486—E, Overrim Spout, no Unions ½	.....	23.40
	¾	.....	26.70
	*C 33476—B, Overrim Spout, with Unions ½	.....	25.00
	¾	.....	28.30
	*C 33486—B, Overrim Spout, no Unions ½	.....	25.00
	¾	.....	28.30
	*If for Porcelain Baths with regular 2½″ Taper Outlet.....Add ½	.....	1.70
	¾	.....	1.95

PRICE LIST APPLYING TO No. 675-C CATALOG

Prices given below will be helpful in approximating costs, or comparing the cost of one fixture with another. They do not include piping, labor, and other installation costs.

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PAGE	PLATE NUMBER AND DESCRIPTION	PRICE Size	PRICE Chrom. Plated
	ORNAMENTAL CONCEALED BATH FIXTURES		
92-1	*C 33456—E, Top Nozzle: Design 40	½	$33.00
	45	½	69.00
	50	½	42.00
	*C 33456—E, Top Nozzle: Design 40	¾	36.30
	45	¾	71.30
	50	¾	45.15
	*C 33456—B, Top Nozzle: Design 40	½	34.65
	45	½	70.70
	50	½	43.70
	*C 33456—B, Top Nozzle: Design 40	¾	37.95
	45	¾	73.95
	50	¾	46.75
	*C 33476—E, Overrim Spout: Design 40	½	33.00
	45	½	75.00
	50	½	39.00
	*C 33476—E, Overrim Spout: Design 40	¾	36.25
	45	¾	77.15
	50	¾	42.20
	*C 33476—B, Overrim Spout: Design 40	½	34.65
	45	½	76.70
	50	½	40.65
	*C 33476—B, Overrim Spout: Design 40	¾	37.95
	45	¾	78.75
	50	¾	43.80
	*If for Porcelain Baths with regular 2½" Taper Outlet.....Add	½	1.70
		¾	1.95
92-2	C 33512—A, Overrim Spout: Design 40	½	18.80
	45	½	58.70
	50	½	24.70
	C 33512—A, Overrim Spout: Design 40	¾	22.15
	45	¾	59.90
	50	¾	25.70
	CONCEALED BATH FIXTURES		
	C 33515—A, Overrim Spout	½	10.75
		¾	14.00
	C 33515—B, Overrim Spout	½	10.75
		¾	14.00
	C 33512—A, Overrim Spout, with Unions	½	11.40
		¾	14.70
	C 33518—A, Overrim Spout, no Unions	½	11.40
		¾	14.70
	C 33512—B, Overrim Spout, with Unions	½	11.20
		¾	14.50
	C 33518—B, Overrim Spout, no Unions	½	11.20
		¾	14.50
	C 33513—A, Overrim Spout, with Unions	½	11.40
		¾	14.70

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE Size	PRICE Nickel Plated	PRICE Chrom. Plated
	CONCEALED BATH FIXTURES (Cont'd)			
92-2	C 33519—A, Overrim Spout, no Unions	½	.....	$11.40
		¾	.....	14.70
	C 33513—B, Overrim Spout, with Unions	½	.....	11.20
		¾	.....	14.50
	C 33519—B, Overrim Spout, no Unions	½	.....	11.20
		¾	.....	14.50
	C 33535—R, *Rival*, Overrim Spout, no Unions	½	$7.00	7.40
	C 33535—RU, *Rival*, Overrim Spout, with Unions	½	7.00	7.40
	SHAMPOO TRIMMINGS			
	C 33540, Shampoo with Spray Hook	.....	.....	3.45
	C 33544, Shampoo with Stainless Steel Flexible Tubing and Spray	.....	.....	DISC.
	CONCEALED CONNECTED WASTE AND OVERFLOW			
	C 33572—E	1½	.....	5.20
		2	.....	8.30
	C 33574—E, *Rival*	1½	3.15	3.30
	CONCEALED POP-UP WASTE AND OVERFLOW			
	C 33581—E, *Accesso*	1½	.....	5.35
		2	.....	9.30
	C 33581—E, *Accesso:* Design 40	1½	.....	8.25
	50	1½	.....	9.45
	C 33581—E, *Accesso:* Design 40	2	.....	11.40
	50	2	.....	12.55
	CAST IRON CHAIR AND WALL CARRIERS			
93-1	C 33651, Wall Carrier with Exposed Brackets.....Per Pr.	.....	7.00	.....
	C 33653, Wall Carrier with Concealed Brackets.....Per Pr.	.....	7.00	.....
	C 33657, Chair Carrier with Exposed Brackets	.....	10.20	.....
	C 33659, Chair Carrier with Concealed Brackets	.....	10.20	.....
	For Enameled Exposed Brackets...Add	.....	1.40	.....

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE Chrom. Plated
	LAVATORY LEGS AND BRACKETS	
	C 33676—C, Round Metal Leg (For China Lavatories) Pr.	$18.30
	C 33676—M, Round Metal Leg (For Marble Lavatories) Pr.	16.70

PRICE LIST APPLYING TO No. 675-C CATALOG

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PAGE	PLATE NUMBER AND DESCRIPTION	PRICE Nickel Plated	PRICE Chrom. Plated
	LAVATORY LEGS AND BRACKETS (Continued)		
93-1	C 33677, *Rival*, Round Metal Leg (For Small China Lavatories).....Pr.	.....	$ 5.20
	C 33722—MM, Round Metal Leg (For Marble Lavatories).....Pr.	.....	16.70
	C 33725—AC, Square paneled Metal Leg (For China Lavatories).....Pr.	.....	34.15
	C 33725—AM, Square paneled Metal Leg (For Marble Lavatories).....Pr.	.....	34.15
	C 33726—C, Octagonal Metal Leg (For China Lavatories).....Pr.	.....	21.70
	C 33726—M, Octagonal Metal Leg (For Marble Lavatories).....Pr.	.....	21.70
	C 33665, *Handy*, Towel Bar (For use with C 33677, *Rival*, Leg).....Ea.	.....	2.20
94-1	C 33714, Porc. Enam. Semi-Concealed Brackets: For 20" Lavatories.....Pr.	.....	5.20
	For 24" and Larger.....Pr.	.....	8.75
	C 33717, Porc. Enam. Wall Bracket.....Pr.	.....	1.95
	C 33718—M, Brass Adjustable Wall Bracket..Pr.	.....	10.80
	C 33719, Brass Wall Bracket.....Pr.	.....	1.95
	C 33720, Brass Wall Bracket.....Pr.	.....	1.95
	MISCELLANEOUS LAVATORY AND SINK TRIMMINGS		
	C 33752, Chainstay with Chain and Rubber Stopper (For China Lavatories).....	$0.45	.55
	C 33800, P. O. Plug with Stopper.....1¼ or 1½	1.20	1.40
	C 33860—A, Sink Plug with Rubber Stopper....	.....	1.40
	C 33872—A, Sink Strainer.....	.....	1.40
	C 33852—P, Standing Waste—4¾".....	2.70	3.20
	7".....	3.20	3.90
	C 33852—S, Standing Waste—4¾".....	2.15	2.55

PAGE	SINK AND LAVATORY TRAPS	Emery Finish	Nickel Plated	Chrom. Plated
95-1	C 33900, "P" Trap: 1¼x1¼x11".....	$ 1.90	$ 2.40	$ 2.75
	1¼x1¼x14".....	2.00	2.50	2.90
	1½x1¼x11".....	2.20	2.75	3.15
	1½x1¼x14".....	2.30	2.90	3.30
	1½x1½x11".....	2.20	2.75	3.15
	1½x1½x14".....	2.30	2.90	3.30
	C 33910, "S" Trap: 1¼x1¼x20½".....	2.50	3.15	3.55
	1¼x1¼x26½".....	2.55	3.20	3.70
	1½x1¼x20½".....	2.90	3.65	4.20
	1½x1¼x26½".....	3.15	3.90	4.45
	1½x1½x20½".....	2.90	3.65	4.20
	1½x1½x26½".....	3.15	3.90	4.45

PAGE	PLATE NUMBER AND DESCRIPTION	PRICE Emery Finish	PRICE Nickel Plated	PRICE Chrom. Plated
	SINK AND LAVATORY TRAPS (Cont'd)			
95-1	C 33970, "P" Trap: 20 Gauge 1¼x1¼x6"	.....	$2.55	$3.15
	1½x1¼x6"	.....	3.45	4.25
	1½x1½x6"	.....	3.45	4.25
	17 Gauge 1¼x1¼x6"	.....	2.60	3.25
	1½x1¼x6"	.....	3.50	4.35
	1½x1½x6"	.....	3.50	4.35
	C 33976, "P" Trap: 1¼x1¼".....	$0.95	1.20	1.45
	1½x1¼".....	1.05	1.40	1.75
	1½x1½".....	1.05	1.40	1.75
	2 x1½".....	2.00	2.50	3.15
	2 x2 ".....	2.00	2.50	3.15
	C 33988, "P" Trap: 1¼x1¼".....	1.30	1.70	2.05
	1½x1¼".....	1.65	2.00	2.55
	1½x1½".....	1.65	2.00	2.55
	SEDIMENT AND HAIR INTERCEPTING TRAP			
	C 33920, Trap.....	.....	.....	16.70

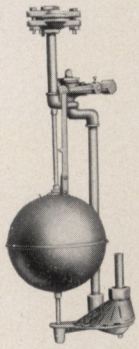
PAGE	ANTI-SIPHON TRAPS	Size	Nickel Plated	Chrom. Plated
	C 34152, "P" Trap.....20 Gauge	1¼	$ 2.95	$ 3.70
		1½	3.40	4.30
	17 Gauge	1¼	3.15	3.85
		1½	3.60	4.45
	C 34153, "S" Trap.....20 Gauge	1¼	3.60	4.50
		1½	4.15	5.15
	17 Gauge	1¼	3.95	4.85
		1½	4.40	5.45
	C 34163, "P" Trap.....20 Gauge	1¼	2.30	2.80
		1½	2.65	3.35
	17 Gauge	1¼	2.40	2.95
		1½	2.90	3.55
	C 34165, "S" Trap.....20 Gauge	1¼	2.95	3.65
		1½	3.35	4.25
	17 Gauge	1¼	3.20	3.90
		1½	3.75	4.55
	CAST BRASS AND PRESSED METAL ESCUTCHEONS			
96-1	C 34260, Cast Brass Escutcheon.....	⅜ IPS	.25	.30
		½ IPS	.25	.30
		¾ IPS	.30	.35
		1 IPS	.30	.35
		1¼ IPS	.35	.40
		1½ IPS	.45	.50
		2 IPS	.55	.65
		1¼ O.D.	.30	.35
		1½ O.D.	.35	.40
	C 34261, Pressed Metal Escutcheon....	⅜ IPS	.08	.10
		½ IPS	.09	.11
		¾ IPS	.10	.13
		1¼ IPS	.14	.17
		1½ IPS	.17	.19
		2 IPS	.19	.22
		1¼ O.D.	.07	.08
		1½ O.D.	.08	.08

CELLAR DRAINERS AND SUMP PUMPS

CLIMAX CELLAR DRAINERS



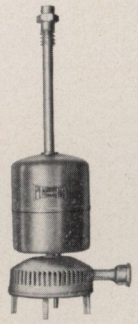
C 35100
NON-AUTOMATIC



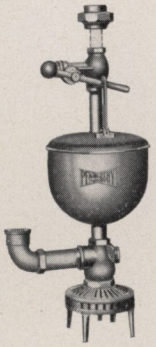
C 35102
AUTOMATIC

Number	1	2	3	4
Supply Pipe.....Inches	½	¾	1	1¼
Discharge Pipe.....Inches	1	1¼	1½	2
Capacity G.P.H....20 lbs. P., 3′ lift	280	520	610	820
9′ lift	62	190	270	430
80 lbs. P., 3′ lift	700	1180	1510	2240
9′ lift	550	1090	1230	1610

PENBERTHY CELLAR DRAINERS



C 35108
Model S
Size No. 0



C 35109
†Model R
Sizes No. 1 and 2

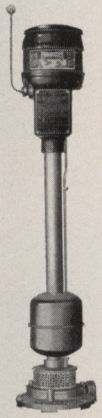


C 35110
Model L
Sizes No. 3, 4 and 5

Number	0	1	2	3	4	5
Supply Pipe.....Ins.	½	½	¾	1	1¼	1½
Discharge Pipe...Ins.	1	1	1¼	1½	2	2½
Capacity Per Hour .....Gallons	80-650	80-720	190-1240	450-1650	600-2400	700-3200

At 10 to 150 pounds pressure—3 to 18′ lift.
†Non-automatic Cellar Drainers furnished same as Style R.

PENBERTHY ELECTRIC SUMP PUMP



MODEL 36

Made in various sizes to more fully meet the demand for electric pumps at popular prices, the Penberthy line is carefully designed for real and lasting service.

Conditions favoring the electric pump are:

1. For districts where city water pressure is not available, or at least very low.
2. Larger quantities of seepage water to be handled.
3. Discharge heads up to 22 feet.
4. Low cost of operation.

INSTALLATION

The automatic Electric Sump Pump is set in a floor sump which can be conveniently made by sinking a piece of 15″ to 24″ minimum size sewer crock 2 ft. long with the bell at the floor level. Cementing up the bottom prevents undercutting and settling of the crock, and protects the pump from loose dirt.

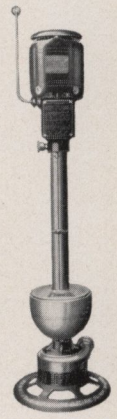
The pump outlet is piped to the nearest sewer or surface outlet. Not to exceed a total head of 20 to 22 ft.

The motor switch cord is plugged into the nearest plug or light socket and the pump is ready for operation. See general instructions which accompany each pump.

There are no projecting arms or delicate parts to require special supports or protection, either during transit, installation, or in operation.

The entire unit is so simple in design and construction as to require no previous experience for installation.

GENERAL INSTRUCTIONS ACCOMPANY EACH PUMP



MODEL K

SPECIFICATIONS

Motor: Repulsion induction type; 110 volts, 60 cycle, A C.; 1750 R.P.M.; ball thrust bearings. Motors furnished to suit other current characteristics at slight additional cost.
Switch: Special mercury type switch of exceptionally rugged construction.
Material: Copper and bronze throughout.
Pump: Centrifugal type with high capacity, machined bronze scientifically balanced impeller of Penberthy design.
Sump: Preferably not less than 15″ x 24″ sewer crock located at lowest point to collect all drainage, cemented at bottom. A cover is desirable to keep out dirt and refuse and can be furnished as shown on bottom of this page.

SIZES, PIPE CONNECTIONS, CAPACITIES, ETC.

Size No.	Pipe Connections	Sump Depth Feet	Height of Pump Ft.	Height of Pump In.	Approximate Capacity, Gallons per Hour Against Discharge Head of 1 Foot	5 Foot	10 Foot	15 Foot	20 Foot	22 Foot	Size Motor H. P.	Weight Boxed Lbs.
†O-36	1	2	3	4¼	....	1500	1500	1250	750	...	¼	57
1K	1¼	2	3	7¼	3600	3200	2600	1900	1000	600	¼	102
2K	1¼	3	4	7¼	3600	3200	2600	1900	1000	600	¼	115
3K	1¼	4	5	6	3600	3200	2600	1900	1000	600	¼	128
4K	1¼	6½	7	11	3600	3200	2600	1900	1000	600	¼	149
5K	1¼	8½	9	10	3600	3200	2600	1900	1000	600	¼	195

NOTE: Total discharge head equals the vertical distance from water level in sump to point of discharge plus all head lost by pipe friction.
†Model O-36 furnished with 110 or 220 volt, 60 cycle A.C. motor only.

PENBERTHY RING AND SPLIT SUMP COVERS

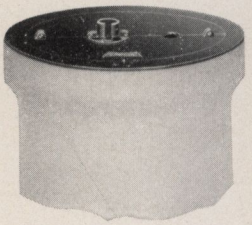
FOR AUTOMATIC ELECTRIC SUMP PUMPS AND AUTOMATIC CELLAR DRAINERS

Covers are exceptionally well designed with proper clearance provided for Automatic Control Mechanism and are sufficiently heavy to hold pumps suspended in center of sumps of unusual depth.

Covers can be furnished to fit standard sewer crock sumps from 15 in. to 24 in. The No. 1 size cover is made of two halves bolted together, and fits the inside bell of a standard 18 in. sewer crock or over the top of a 15 in. sewer crock. Additional outer rings are furnished with covers to be used with 21 in., 22 in., and 24 in. crocks.

When ordering: specify cover number, and size of electric pump or water operated drainer used.

Perforated Sump Covers can be supplied when specified at no additional cost.



Cover No.	Outside Diameter Inches	Shipping Weight Boxed	Inside Diameter of Crock Inches	Size of Sump Cover: Cover in Bell End or Over Small End of Crock	Size of Sump Cover: Cover Over Top of Bell End
1	19¾	28 lbs.	15	....	No. 1
			18	No. 1	No. 2
2	24	47 lbs.	21	No. 2	No. 3
			22	No. 2	.....
3	27½	58 lbs.	24	No. 3	.....

WALL CLOSET SUPPORTING FLANGE UNITS

DESIGNED FOR USE WITH DURHAM DRAINAGE PIPING

FEATURES

WHEN THE DRAINAGE PIPING IS SECURELY ANCHORED BOTH HORIZONTALLY AND VERTICALLY THE FLANGE UNIT ACTS AS THE FULCRUM CARRYING THE WEIGHT OF THE CLOSET AND THE APPLIED LOAD.

THREE-POINT SUSPENSION FOR EASE IN ASSEMBLING CLOSET TO FLANGE. OUTLET CONNECTION ALLOWS AMPLE ADJUSTMENT OVER RECOMMENDED ROUGHING-IN SO PROPER CONTACT CAN BE MADE BETWEEN GASKET AND OUTLET CONNECTION.

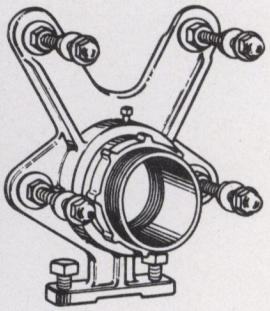
SPACE OF 1/16" BETWEEN CLOSET AND WALL IS CLEAR INDICATION THAT NO PART OF LOAD IS CARRIED BY THE WALL. ALSO ALLOWS SLIGHT UNEVENESS IN WALL FINISH WITHOUT ALTERING STUD SETTINGS, ETC.

CORRUGATIONS AND SLOTTED STUD OPENINGS PROVIDE EASY VERTICAL ADJUSTMENT OF CLOSET WITHOUT DANGER OF SLIPPING.

A STANDARD 4" NIPPLE, FURNISHED BY THE PLUMBER, IS USED BETWEEN THE UNIT AND THE DRAINAGE FITTING. IT IS THE ONLY PART VARYING WITH THE WALL THICKNESS.

CLOSET BOWL CAN BE REMOVED BY TAKING OFF THE EXPOSED CAP NUTS.

FOR "WALTON" SIPHON JET CLOSETS



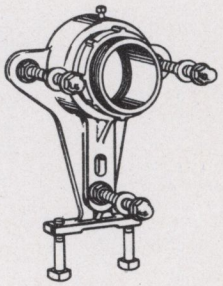
C 37-143

CAST IRON CLOSET SUPPORTING FLANGE UNIT WITH BRASS OUTLET CONNECTION FOR 4-INCH IRON PIPE.

SPECIFY: **C 37-143-G,** IF GALVANIZED OUTLET CONNECTION FOR 4-INCH IRON PIPE IS DESIRED.

Shpg. Wgt.,approx.lbs...27½

FOR "RAPIDWAY" & "LOWALL" BLOWOUT CLOSETS



C 37-144

CAST IRON CLOSET SUPPORTING FLANGE UNIT WITH BRASS OUTLET CONNECTION FOR 4-INCH IRON PIPE.

SPECIFY: **C 37-144-G,** IF GALVANIZED OUTLET CONNECTION FOR 4-INCH IRON PIPE IS DESIRED.

Shpg. Wgt.,approx.lbs....23

WALL CLOSET SUPPORTING CHAIRS

FOR HUB AND SPIGOT SOIL PIPING, LEAD OR IRON PIPE

FEATURES

DESIGNED TO CARRY THE WEIGHT OF THE CLOSET AND APPLIED LOAD, INDEPENDENT OF THE WALLS, OR CONNECTION TO THE DRAINAGE PIPING, THEREBY RELIEVING THIS CONNECTION OF ANY STRAIN.

THREE-POINT SUSPENSION FOR EASE IN ASSEMBLING.

OUTLET CONNECTION ALLOWS AMPLE ADJUSTMENT OVER RECOMMENDED ROUGHING-IN SO PROPER CONTACT CAN BE MADE BETWEEN GASKET AND OUTLET CONNECTION.

LARGE FLAT FOOT OF CHAIR, BURIED 2½" IN FLOOR CARRIES ENTIRE LOAD OF CLOSET. NO WEIGHT IS TRANSFERRED TO WALL OR PIPING.

SPACE OF 1/16" BETWEEN CLOSET AND WALL IS CLEAR INDICATION THAT NO PART OF LOAD IS CARRIED BY THE WALL. ALSO ALLOWS SLIGHT UNEVENESS IN WALL FINISH WITHOUT ALTERING STUD SETTINGS, ETC.

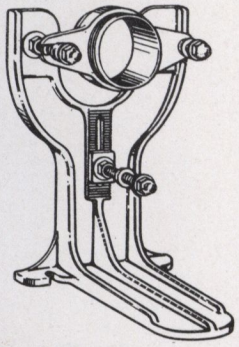
CORRUGATIONS AND SLOTTED STUD OPENINGS PROVIDE VERTICAL ADJUSTMENT WITHOUT DANGER OF SLIPPING.

IF INSTALLED WITH LEAD PIPE OR WITH LEAD PIPE CONNECTION TO ABSORB BUILDING SETTLEMENT, ETC., LEAD IS BROUGHT THROUGH THE WALL AND PEENED OVER THE OUTLET CONNECTION, ELIMINATING THE USUAL SOLDERED OR WIPED JOINT.

CLOSET CAN BE REMOVED READILY BY TAKING OFF THE EXPOSED CAP NUTS.

COMPLETE INSTALLATION INSTRUCTIONS ARE AVAILABLE ON REQUEST.

FOR "RAPIDWAY" & "LOWALL" BLOWOUT CLOSETS



C 37-154

CAST IRON CLOSET SUPPORTING CHAIR WITH BRASS OUTLET CONNECTION FOR 4-INCH LEAD PIPE.

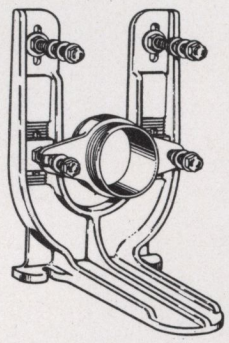
Shpg. Wgt.,approx.lbs.....42

SPECIFY: **C 37-155,** IF BRASS OUTLET CONNECTION FOR 4-INCH IRON PIPE IS DESIRED.

Shpg. Wgt.,approx.lbs.....47

SPECIFY: **C 37-155-G,** IF GALVANIZED OUTLET CONNECTION FOR 4-INCH IRON PIPE IS DESIRED.

FOR "WALTON" SIPHON JET CLOSETS



C 37-156

CAST IRON CLOSET SUPPORTING CHAIR WITH BRASS OUTLET CONNECTION FOR 4-INCH LEAD PIPE.

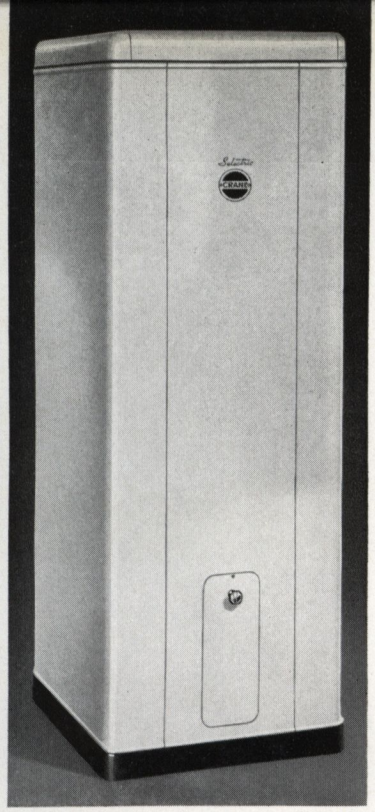
Shpg. Wgt.,approx.lbs.....45

SPECIFY: **C 37-157,** IF BRASS OUTLET CONNECTION FOR 4-INCH IRON PIPE IS DESIRED.

Shpg. Wgt.,approx.lbs.....50

SPECIFY: **C 37-157-G,** IF GALVANIZED OUTLET CONNECTION FOR 4-INCH IRON PIPE IS DESIRED.

CRANE ELECTRIC WATER HEATERS



C 38-125

CABINET MODEL SELECTRIC—C 38-125

Automatic electric water heater finished in white baked enamel with black trim. Single or double heating elements according to local requirements. Available with galvanized steel or Everdur copper tank.

Size	Capacity Gallons	*WATTAGE			Overall Width Inches	Overall Depth Inches	Overall Height Inches	† Hot Water Connection Inches from Floor	Shipping Weight, Approx. Pounds
		Single Element Models	Double Element Models						
		Lower Element Only	Lower Element	Upper Element					
C 8	8	1500	.....	.....	16 1/4	19 1/4	24 5/16	11 3/4	125
C 16	16	1500	.....	.....	16 1/4	19 1/4	42 5/16	29 3/4	175
C 30	30	1500	750	1000	18 1/4	21 1/4	54 9/16	42 1/16	265
C 40	40	2000	750	1250	20 1/4	23 1/4	55 9/16	42 13/16	295
C 52	52	2500	1000	1500	24 1/4	27 1/4	56 13/16	44 13/16	355
C 66	66	3300	1250	2000	24 5/16	26 5/16	55 5/16	42 9/16	425
C 80	80	4000	1650	2500	26 5/16	28 5/16	58 15/16	46 3/16	455
C 100	100	5000	2500	3300	28 5/16	30 5/16	61 9/16	48 15/16	600

*Wattages other than those listed are available. Specify requirements on order . . . Heating elements furnished are standard for 230 volts A.C. . . . Heaters for 115 volts A.C. as well as D. C. are available . . . Electrical connections are located at top in back of heater. Double element models can be furnished with Two Circuit Thermostat for Upper Element.

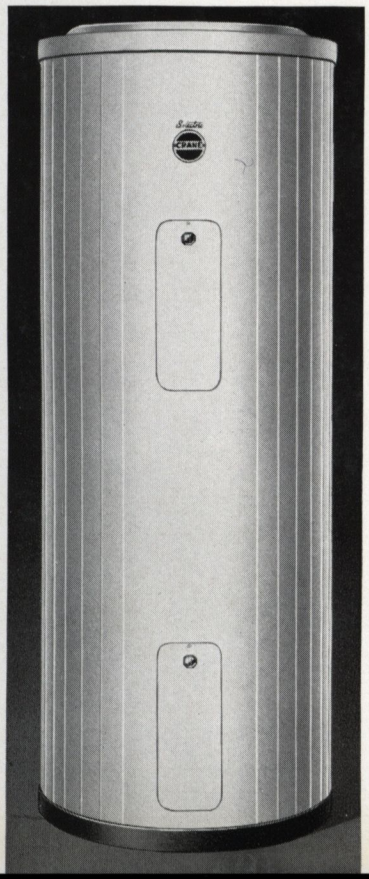
†Water connections are 3/4"—cold water connection on all models is 2" from floor.

The Utmost in Hot Water Service

The Crane Selectric Automatic Electric Water Heater is the finest type of hot water service available for the home. It combines complete safety, perfect cleanliness and utter quiet with the efficiency and economy of a heater in which the maximum of energy consumed is utilized for heating.

The Selectric gives the home owner a thoroughly *dependable* source of instant hot water which will always flow from faucets at an even temperature—winter or summer—never cold, never scalding. It eliminates the annoyance of furnace coil service—in fact, gives freedom from worry of any kind.

C 38-126



ROUND MODEL SELECTRIC—C 38-126

Automatic electric water heater with modern fluted casing finished in white baked enamel with black trim. Single or double heating elements according to local requirements. Available with galvanized steel or Everdur copper tank.

Size Number	Capacity Gallons	*WATTAGE			Casing Diameter Inches	Overall Height Inches	△ Hot Water Connection Inches from Floor	Shipping Weight, Approx. Pounds
		Single Element Models	Double Element Models					
		Lower Element	Lower Element	Upper Element				
R 8	8	1500	.....	.....	19	24 7/8	10 15/16	110
R 16	16	1500	.....	.....	19	42 7/8	28 15/16	155
R 30	30	1500	750	1000	21	54 7/8	41 1/4	240
R 40	40	2000	750	1250	23 1/2	55 5/8	42	290
R 52	52	2500	1000	1500	25	56 9/16	43 1/8	345
R 66	66	3300	1250	2000	27	54 7/8	41 3/4	390
R 80	80	4000	1650	2500	29	58 1/4	45 3/8	445
R 100	100	5000	2500	3300	29	60 5/8	48 1/8	490

Available on 3" legs without extra cost (Dimensions given above are without legs).

*Wattages other than those listed are available. Specify requirements on order . . . Heating elements furnished are standard for 230 volts A.C. . . . Heaters for 115 volts A.C. as well as D.C. are available . . . Electrical connections are located at top in back of heater. Double element models can be furnished with Two Circuit Thermostat for Upper Element.

△Water connections are 3/4"—cold water connection on all models is 1 1/4" from floor.

Further details of the Selectric shown on next page.

CRANE ELECTRIC WATER HEATERS

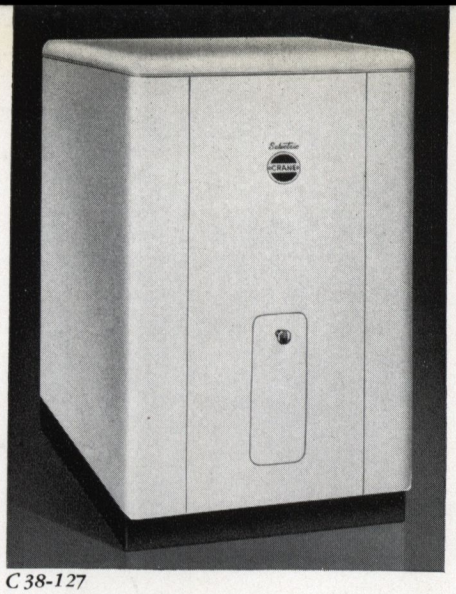
TABLE TOP SELECTRIC—C 38-127

For kitchen installations

T 30 automatic electric water heater finished in white baked enamel, with porcelain enamel work-table top and 3″ black base recessed to give ample toe room and prevent scuffing shoes. Available with galvanized steel or Everdur copper tank.

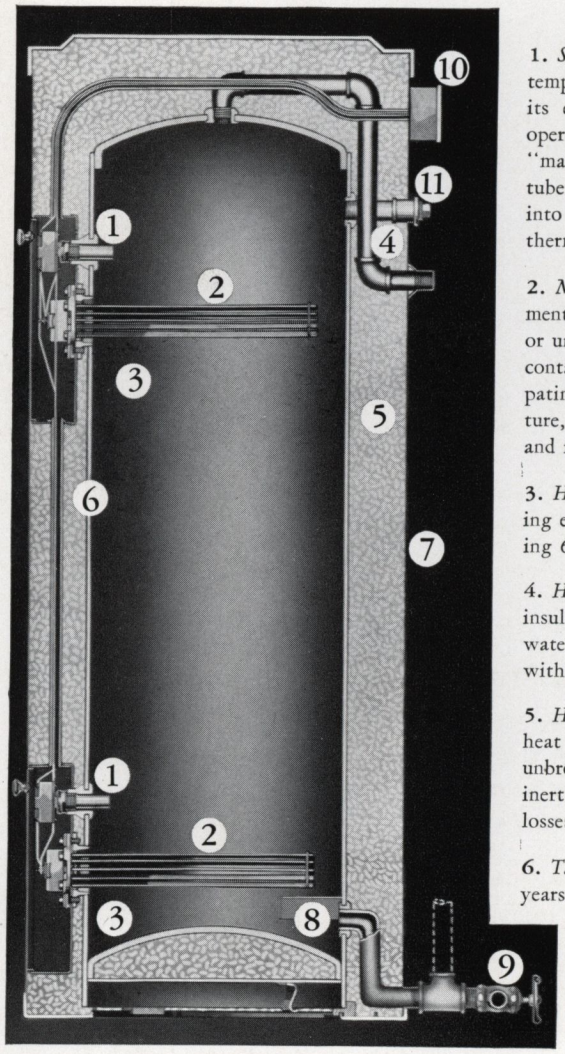
22″ wide x 24″ deep x 36″ high.

Capacity 30 gallons, single element 1500 watts, ¾″ water connections through floor, approx. shipping weight 235 lbs.



C 38-127

SELECTRIC FEATURES



Above: Cross-section of Cabinet Models.

1. *Selectric Thermostat.* This automatic temperature control is distinguished for its extreme simplicity and accuracy. It operates with a positive snap-action "make" and "break". The thermostat tube is installed in a well which extends into the tank and permits removal of thermostat without draining tank.

2. *Multi-Blade Heating Element.* This element is composed of a *number* of blades, or units, which provide maximum surface contact with the water. Large heat dissipating surface means low surface temperature, contributing to extremely long life and freedom from liming.

3. *Heating Element Flange Mounting.* Heating element quickly removable by loosening 6 small bolts.

4. *Hot Water Heat Trap.* Imbedded in the insulation, eliminates heat loss in hot water piping by preventing circulation within connecting pipes.

5. *Heatseal Insulation.* A highly effective heat preserving "blanket." Forms a thick unbroken covering of millions of tiny, inert air spaces *entirely* around tank. Heat losses are negligible.

6. *Tanks.* Unusually heavy—built for years of service. Double extra heavy *galvanized* steel tanks tested at 300 lbs. Working pressure 127.5 lbs. Or lifetime Everdur Copper tanks tested at 350 lbs. pressure. Working pressure 149.5 lbs. (Mass. Code.)

7. *Lustrous Baked Enamel Finish.* The outside casing of the Selectric is built of heavy sheet steel. Finished in gleaming white with black trim—baked enamel—for permanent beauty. The Table Top Model has a porcelain enamel work-table top.

8. *Cold Water Inlet.* Cold water enters and is guided to the bottom of the tank by a baffle which prevents excessive mixing of the cold water with that already heated. Thus greater volume of heated water is available for immediate use.

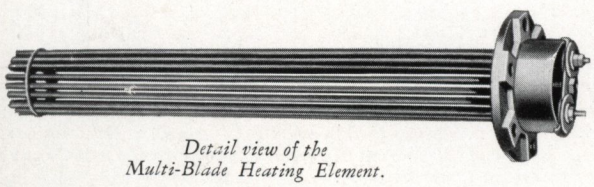
9. *Drain Cock*—to flush any accumulation of sediment from tank. Drain cock equipped with hose bib.

10. *Conduit Box.* Located at top in back of heater.

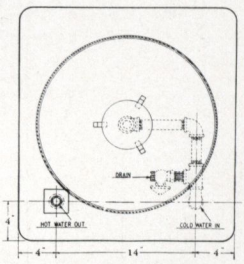
11. *Connection* for application of Temperature and Pressure Relief Valve.

★ *Wiring.* All electrical connections within CRANE Selectric Electric Water Heaters are made with a special heat resisting asbestos covered wire.

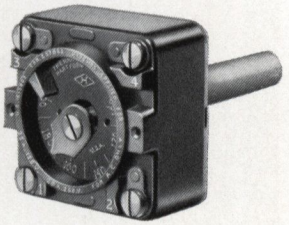
★ *Approval.* CRANE Selectric Electric Water Heaters are listed under Re-examination Service of Underwriters' Laboratories, Inc.



Detail view of the Multi-Blade Heating Element.

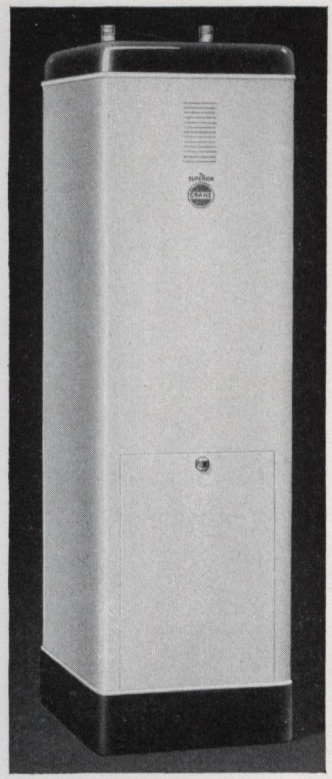


Cross-section of Table Top Model showing where water connections come through floor.



Detail view of the Selectric Thermostat

Round and cabinet model Selectrics listed on Page 137-1.



CABINET MODEL
C 38140-C

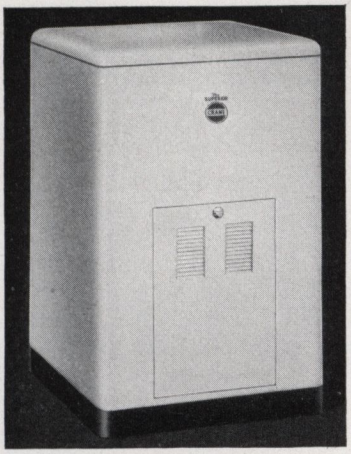
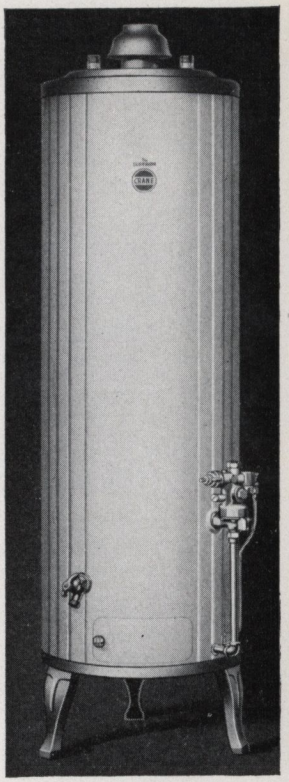


TABLE TOP MODEL
C 38140-T



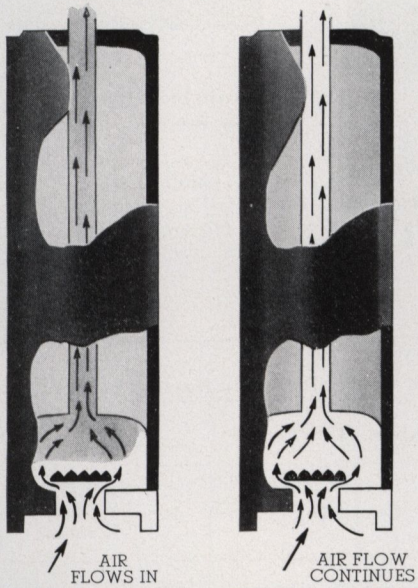
ROUND MODEL
C 38140-R

CRANE "SUPERIOR"

THE WATER HEATER THAT GIVES YOU MINI-MISER

Here is the finest gas water heater that money can buy. It possesses all those quality features that make for safe, dependable and economical operation. Included among these are **complete** automatic gas shut-off, double thick insulation (2½") to effectively restrict radiation loss from the outside—and the remarkable new Mini-Miser which minimizes radiation loss from the **inside** . . . Built in a complete range of sizes for fine homes, estates, small apartments. Available with galvanized steel or Everdur copper tanks —with or without the famous Geyser Principle of Heating—in round and cabinet models.

CONVENTIAL HEATER



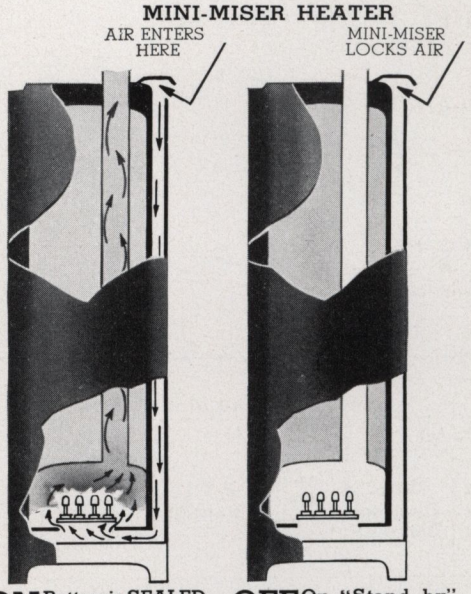
ON Air, necessary for combustion, flows in through bottom of conventional heaters.

OFF On "stand by" the burner is off, but the air flow **CONTINUES.** This cools heater

THE SUPERIOR WITH "MINI-MISER"

The MINI-MISER is an entirely new principle in water heater construction. Basically it regulates air flow. It gives the heater just enough air for combustion when the burner is on. It **checks** air flow (preventing chilling flue drafts) when the burner is off. No mechanism is involved. MINIMISER is not a "gadget" nor a "device" adding to the cost of the heater. Its operation is wholly natural.

MINI-MISER HEATER

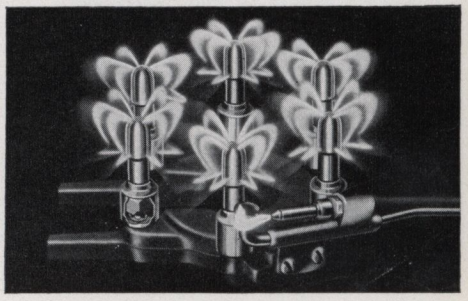


ON Bottom is SEALED. Just enough air for combustion is drawn down SPECIAL INTAKE.

OFF On "Stand by" draw ceases. With air flow thus checked, heat loss is minimized.

THE BLUE FLAME BUTTERFLY BURNER (Patented)

The Blue Butterfly patented burner of Crane Gas Water Heaters requires no adjustment—will not backfire. Each brass jet is an individual burner firing six thin, blue sheets of flame horizontally, combining gas and air perfectly to secure full benefit of all gas burned. Burner jets made of brass are mounted in burner manifold of cast grey iron of which the electro-magnetic safety gas control is an integral part.



THE SUPERIOR

1. MINI-MISER. (Patent applied for.) Bottom is sealed. Air for combustion enters at **top** of heater. Natural automatic air governor when burner is on. Creates air lock when burner is off, minimizing heat loss. Saves gas.

2. COLD WATER INLET TUBE. (On right side for Pacific Coast.) Loose and removable.

3. SUPER HEAT DEFLECTOR. (Patented.) Located in flue way. Conducts heat of burned gases to water. Highly efficient.

4. DOUBLE THICK INSULATION.—full 2½ inches! Moisture-proof. Vermin-proof.

5. DOUBLE EXTRA HEAVY GALVANIZED STEEL OR EVERDUR COPPER TANK. Welded into single unit. Durable. Galvanized steel tanks are tested at 300 lbs. Working pressure 127.5 lbs. Everdur copper tanks are tested at 350 lbs. Working pressure 149.5 lbs.

6. BAKED ENAMEL FINISH—on **galvanized** sheet steel outer casing. Lasting beauty.

7. INSTANT ACTION THERMOSTAT. (Patented.) Combines gas filter, built-in gas flow adjustment, main shut-off valve and safety gas control in one unit. All metal. Unbreakable. Dependable.

8. ELECTRO-MAGNETIC SAFETY GAS CONTROL. (Patented.) Shuts off **pilot** as well as main burner if pilot flame is extinguished. Automatic push button lock prevents gas reaching main burner until pilot is lit. Complete safety.

9. TEMPERATURE CONTROL DIAL—to set any temperature desired from 80° to 180° Fahrenheit.

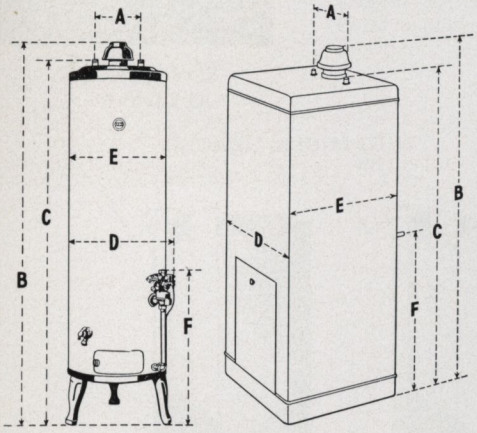
10. DRAIN FAUCET to flush any accumulation of sediment from heater. Hose connection for basement clean-up use.

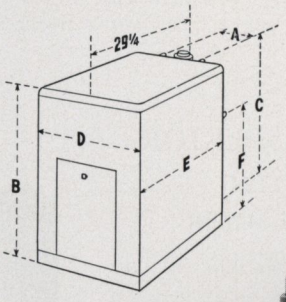
11. BLUE FLAME BUTTERFLY BURNER. (Patented.) Highly efficient. Requires no adjustment.

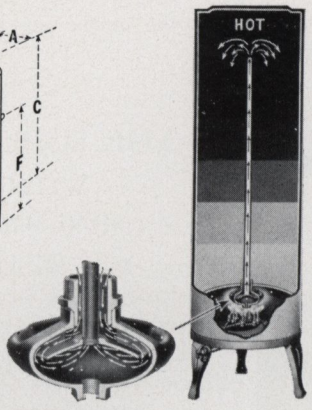
★ Note that all parts of Crane water heaters are built under one roof. Unified design and manufacture insure perfect operating co-ordination . . . highest efficiency . . . utmost safety!

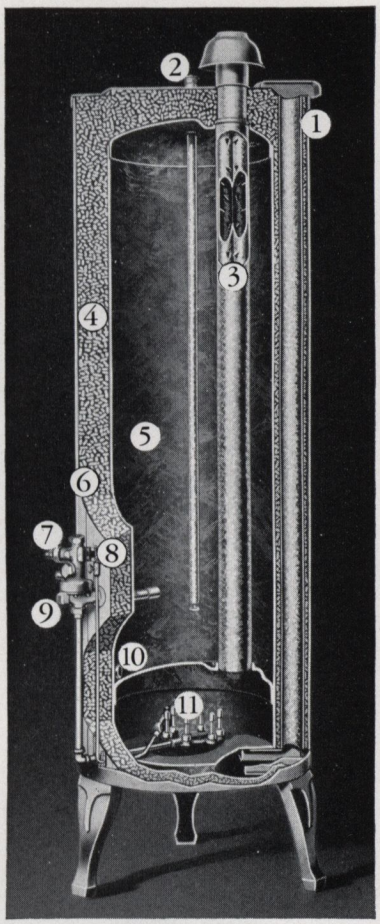
★ **COLORS:** Ivory body with Buff trim and Burnt Orange stripe. White body with Black trim optional. Table Top Model, White body with Black trim only.

★ **FOR LIQUEFIED PETROLEUM GASES:** All Superior Gas Water Heaters are available in models especially adapted for use with liquefied petroleum gases (propane, butane, etc.).









C 38140

Available With Famous Geyser ← Principle of Heating

All Superior water heaters, round or cabinet (except Table Top Model) may be had with the Geyser Principle Heating Element at slight extra cost.

SUPERIOR: TABLE OF DATA AND DIMENSIONS

Key: R = Round Model. C = Cabinet Model. T = Table Top Model. E = with Geyser Principle Heating Element.

Model		Capacity, Gallons	B.T.U. Ratings	Recovery, Gals. per Hr. 60° Rise	Gas Inlet Inches	Water Connections Inches	Flue Connections Inches	Roughing-In Dimensions						Shipping Weight Pounds* Approx.	
Without Heating Element	With Heating Element							A	B	C	D	E	F	Galv. Steel Without Element	Everdur Copper Without Element
ROUND MODELS															
R20	R20E	20	21,000	29.4	½	¾	3	8	64¾	61⅝	18⅜	17	27	225	220
R28	—	28	27,000	37.8	½	¾	3	8	65	61⅞	20	19	27	260	255
—	R28E	28	27,000	37.8	½	¾	3	8	69	65⅞	20	19	27	—	—
R35	R35E	35	27,000	37.8	½	¾	3	8	65	61⅞	21¾	21	27	295	285
R45	R45E	45	30,000	42.0	½	1	4	8	64½	60⅝	25⅛	25	33¼	400	380
R55	R55E	55	40,000	55.9	½	1	4	8	69¼	65⅝	25⅛	25	33¼	415	395
R75	R75E	75	40,000	55.9	½	1¼	4	8	68⅛	64¼	35⅝	29	31 15/16	530	510
R99	R99E	99	40,000	55.9	½	1¼	4	8	79½	75⅝	35⅝	29	31 15/16	650	635
CABINET MODELS															
C20	C20E	20	21,000	29.4	½	¾	3	8	58½	54	16 5/16	19 5/16	25½	235	230
T20	—	20	21,000	29.4	½	¾	3	8	36	33¾	22 1/16	24	23½	280	270
C35	C35E	35	27,000	37.8	½	¾	3	8	58⅞	54⅜	20 5/16	23 5/16	25½	315	310
C45	C45E	45	30,000	42.0	½	1	4	8	55⅜	49⅞	24 5/16	27 5/16	29¼	425	420
C55	C55E	55	40,000	55.9	½	1	4	8	61⅛	55⅝	24 5/16	27 5/16	29¼	440	430

***Add approximately 10 lbs. to shipping weights shown, for heaters with heating element (Geyser Principle).**

THE KEYSTONE

AUTOMATIC STORAGE GAS WATER HEATERS

1. **DRAFT HOOD.**

2. **HOT WATER OUTLET.** (On left side for Pacific Coast.)

3. **COLD WATER INLET TUBE.** Loose and removable. (On right side for Pacific Coast.)

4. **HEAT DEFLECTOR.** (Patented). Located in flue way. Conducts the heat of burned gases to the water.

5. **DOUBLE EXTRA HEAVY GALVANIZED STEEL OR EVERDUR COPPER TANK.** Welded into single unit.

6. **BAKED ENAMEL FINISH** on galvanized sheet steel casing. Lasting beauty.

7. **THICK INSULATION.** 1½" blanket. Moisture-proof. Vermin-proof.

8. **INSTANT ACTION THERMOSTAT** (Patented). Combines gas filter, built-in gas flow adjustment, main shut off valve. All metal, unbreakable. Dependable.

9. **TEMPERATURE CONTROL DIAL**—to set any temperature desired from 80° to 180° Fahrenheit.

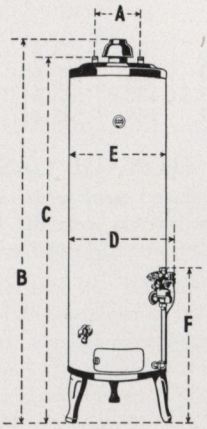
10. **DRAIN FAUCET** to flush any accumulation of sediment from heater. Hose connection for basement clean up use.

11. **BLUE FLAME BUTTERFLY BURNER** (Patented). Highly efficient. Requires no adjustment.

12. **SAFETY GAS CONTROL** (Patented). Shuts off main burner if pilot flame is extinguished.

★ **COLORS:** Ivory body with light Green trim and Dark Green stripe. White body with Black trim optional.

★ **LIQUEFIED PETROLEUM GASES:** All Crane Gas Water Heaters are available in models especially adapted for use with liquefied petroleum gases (propane, butane, etc.). On Keystone Heaters there is a slight extra charge for this equipment.

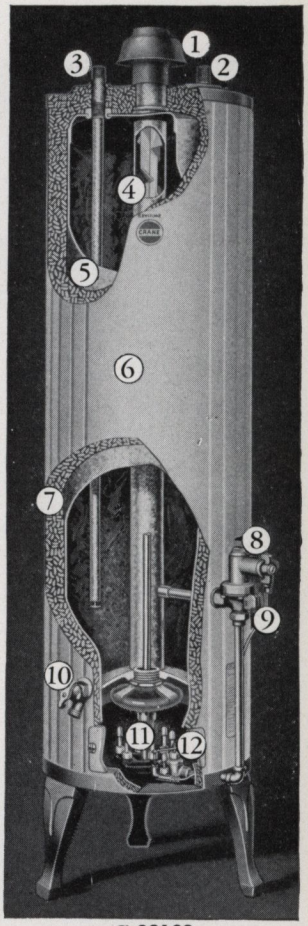


C 38140-R

C 38162

Available With or Without Famous Geyser Principle of Heating

As illustrated on page 138-2.

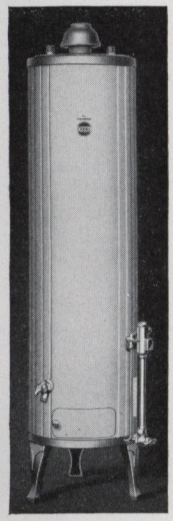


C 38162

KEYSTONE: TABLE OF DATA AND DIMENSIONS

Model		Capacity, Gallons	B.T.U. Ratings	Recovery, Gals. per Hr. 60° Rise	Gas Inlet Inches	Water Connections Inches	Flue Connections Inches	Roughing-In Dimensions						Shipping Weight, Approx. Pounds*	
Without Heating Element	With Heating Element							A	B	C	D	E	F	Galv. Steel Without Element	Everdur Copper Without Element
R20	R20E	20	21,000	29.4	½	¾	3	8	62	58 7/8	17	15	23 13/16	200	195
R28	—	28	—	—	½	¾	3	8	62¾	59 5/8	18¾	17	23 13/16	235	230
—	R28E	28	27,000	37.8	½	¾	3	8	66 5/8	63½	18¾	17	23 13/16	—	—
R35	R35E	35	27,000	37.8	½	¾	3	8	62¾	59 5/8	20 3/8	19	23 13/16	270	260
R45	R45E	45	30,000	42.0	½	1	4	8	64½	60 5/16	25 1/8	25	33¼	390	380

***Add approximately 10 lbs. to shipping weights shown, for heaters with heating element (Geyser Principle).**



C 38171 Champion

"CHAMPION" INSULATED AUTOMATIC STORAGE GAS WATER HEATERS

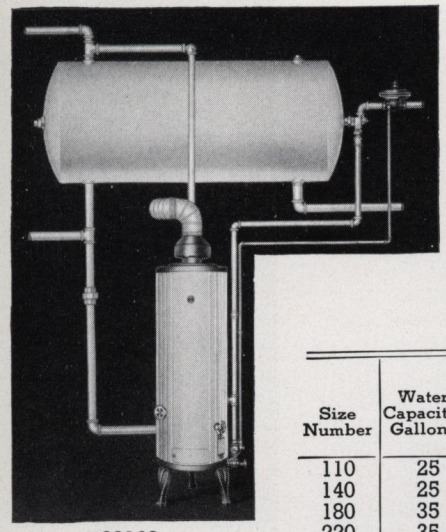
The ***Champion*** insulated automatic storage gas water heater fits the hot water requirements of the vast majority of small homes. It is attractive in appearance, economical in performance and especially low in price. Its automatically controlled operation is positive, safe, dependable and highly efficient.

The ***Champion*** carries many of the control and operating advantages of other Crane Gas Water Heaters. Tank bottom and flue way are utilized as heating surface. Equipped with Blue Butterfly Burner, Safety Pilot Control, Instant Action Thermostat, Heat Control Indicator and Heat Deflector in the flue.

CHAMPION: TABLE OF DATA AND DIMENSIONS

Model Number	Capacity, Gallons	B.T.U. Ratings	Recovery, Gals. per Hr. 60° Rise	Gas Inlet Inches	Water Connections Inches	Flue Connections Inches	Roughing-In Dimensions						Shipping Weight, Approx. Pounds
							A	B	C	D	E	F	
R15	15	21,000	29.4	½	¾	3	8	54	50 7/8	15 5/8	14 3/16	22 7/16	145
R20	20	21,000	29.4	½	¾	3	8	62	58 7/8	15 5/8	14 3/16	22 7/16	160
R28	28	27,000	37.8	½	¾	3	8	62¾	59 5/8	17 3/8	16 3/16	22 7/16	200

ROYAL BOOSTER
GAS WATER HEATER



C 38168

The **Royal Booster** is a circulating type heater that ***provides a small storage of its own.*** In cases where a storage tank is not feasible, the **Royal Booster** can be used alone.
Because of this water space, the **Royal Booster** is not subject to clogging. Cleaning, if necessary, is a simple matter.
The **Royal Booster** offers the further advantage of high efficiency, since it is insulated.
The **Royal Booster** has three distinct types of heating surface to insure maximum transfer of heat from gas fired:

1. Main combustion chamber.
2. Five or nine individual flues with Integral Heat Conductors.
3. The **Royal Booster** heating dome.

This results in heat under the water, through the water and on top of the water.
LARGE HAND HOLE CLEANOUT, oval shaped, 3 x 4 inches, makes thorough cleaning of heater an easy and simple task, if necessary.
HEATSEAL INSULATION. Heavy blanket, 1½ inches thick, over all sides and top.

Size Number	Water Capacity Gallons	B.t.u. Ratings	Recovery, Gallons per Hour					Overall Height to Top of Draft-hood, Inches	Overall Width, Inches	Water-Connections, Inches	Size of Flue Required Inches	Shipping Weight Approx. Pounds	
			60°	70°	80°	90°	100°					Everdur Copper Tank	Galv. Steel Tank
110	25	80,000	112.	96.	84.	74.7	67.2	72	22	2	5	375	405
140	25	100,000	140.	120.	105.	93.4	84.	72	22	2	5	375	405
180	35	132,000	184.8	158.5	138.6	123.2	110.9	70¼	28	2	6	535	585
220	35	160,000	224.	192.	168.	149.4	134.5	70¼	28	2	6	535	585

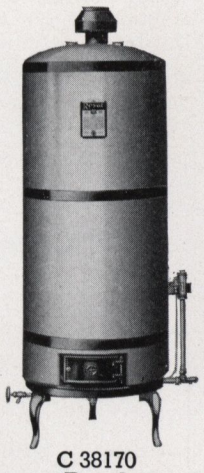
"ROYAL" NON-INSULATED AUTOMATIC STORAGE GAS WATER HEATERS

A big heater for installation where instant hot water is required in big volume. Careful engineering has made all vital parts of the ***Royal*** oversize for added strength.

To increase heating capacity the burner and quick removable brass heating element are especially large.

Built with either Everdur Copper or double extra heavy galvanized steel tank—and equipped with Geyser principle brass heating element. Made in two big sizes, and supplied with or without portable heat retaining jacket.

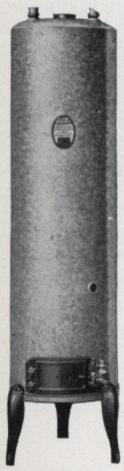
The ***Royal*** is self-operating, automatically turning the gas on and off as required. The janitor cannot forget and waste gas or disappoint tenants since the ***Royal*** does not require his attention.



C 38170
Royal

Size Number	Storage Capacity Gallons	B.t.u. Ratings	Recovery Gal. Per Hr. 60° Temp. Rise	Overall Height to Top of Draft-hood Inches	Height of Water Connections From Floor Inches	Overall Width Inches	Gas Connection Inches	Water Connection Inches	Size of Flue Required Inches	Shipping Weight Approx. Pounds	
										Everdur Copper Tank	Galv. Steel Tank
75	75	40,000	55.9	71	62	27	½	1¼	4	300	320
99	99	40,000	55.9	83	74	27	½	1¼	4	340	370

"MARVEL" AND "MARVELOUS" HAND OPERATED GAS WATER HEATERS



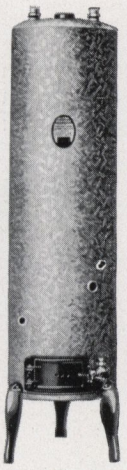
C 38173
Marvel

The ***Marvel*** and ***Marvelous*** are both modern, hand operated gas water heaters. Either is ideal to install where continuous hot water service is not required nor desired. Each provides an abundance of hot water quickly and economically. Moreover, each of these heaters can be quickly converted into an automatic water heater, with simple application of automatic parts.

Both the ***Marvel*** and the ***Marvelous*** are particularly suited to kitchen installations where space is limited.

When hot water is required the burner is lighted and hot water is ready quickly for small needs; soon the entire capacity of the tank is heated, ready for use in the bath, laundry, or elsewhere. The burner may then be turned low or out according to requirements.

The ***Marvel*** is equipped with the Quick Removable Heating Element and Geyser Principle of Heating, while in the ***Marvelous*** the tank bottom and flue way are utilized as heating surface.

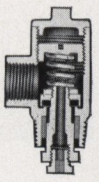


C 38174
Marvelous

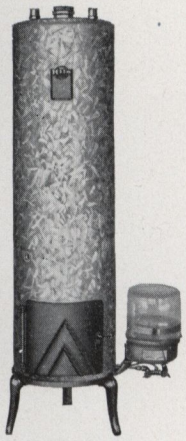
Size Number	Storage Capacity Gallons	Height of Water Connections From Floor Inches	Overall Width Inches	Gas Connection Inches	Water Connections Inches	Size of Flue Required Inches	Shipping Weight Approx. Pounds	
							Everdur Copper Tank	Galv. Steel Tank
* 6	6	33¾	15	½	¾	3	...	75
* 9	9	39¾	15	½	¾	3	...	80
16	16	42¾	15	½	¾	3	110	95
20	20	56½	15	½	¾	3	115	105
28	28	57¼	17	½	¾	3	135	125
35	35	58¼	19	½	¾	3	180	170
55	55	60	23	½	1	4	255	255
75	75	62	27	½	1¼	4	315	315
99	99	74	27	½	1¼	4	365	365

*Marvel only.

"BASMOR" COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE



The ***Basmor*** Combination Temperature and Pressure Relief Valve is made in ¾-inch size and is recommended for installation with all domestic water heaters and range boilers.
All parts of the ***Basmor*** Valve are made of corrosion resisting materials with the mechanism of the valve above the seat, out of the water zone.
A fusible plug for temperature relief melts at approximately 210° Fahrenheit, and is readily replaced. The pressure relief setting is standard at 125 lbs. Other pressure relief setting may be had from 50 to 175 lbs. by specification in order.



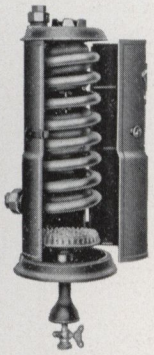
C 38176

WATER HEATERS

"HI-LO" KEROSENE BURNING WATER HEATER AND TANK COMBINED

The Hi-Lo Heater burns water white kerosene efficiently and economically. The home beyond the gas mains can now have hot water, plenty of it, and at a surprisingly low cost with a Hi-Lo Heater. Because the Hi-Lo Heater is built with the tank and burner combined making a neat, compact, space saving unit, the installation job is extremely simple and can be handled easily by one man.

Size Number	Storage Capacity Gallons	B.t.u. Ratings	Recovery Gals. Per Hr. 60° Temp. Rise	Overall Height to Top of Drafthead Inches	Overall Width Inches	Water Connections Inches	Size of Flue Required Inches	Shipping Weight Approx. Pounds Galv. Steel Tank Only
22	22	18,500	26	62½	27¼	¾	3	170
30	30	18,500	26	62½	29¼	¾	3	210

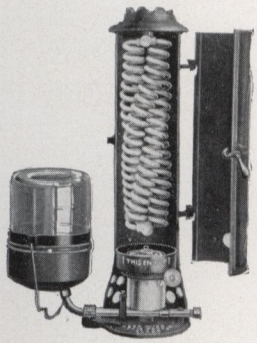


C 38210

"REX" GAS WATER HEATERS

Number	5	20	30	*31	40	50	70	800	155	9
Capacity Gallons	20-30	30	30	30	50	50	60	80	150	20-30
Height of shell Inches	17¾	17¾	17¾	17¾	19½	19½	23	27	27	....
Number of coils	1	2	2	2	2	2	2	3	3	†
Length of coils	9′	13′ 6″	13′ 6″	13′ 6″	17′ 6″	20′ 3″	23′ 0″	37′ 9″	37′ 9″	....
Size of flue Inches	3	3	3	3	3	3	3	4	4	3
Water connections Inches	¾	¾	¾	¾	¾	¾	¾	1	1¼	¾
Gas connections Inches	½	½	½	½	½	½	½	½	½	½
Shipping wt., approx. Pounds	24	29	30½	30	37	38½	42½	70	82	27½

*No. 31 has side gas connection. †No. 9 has cast iron coil.

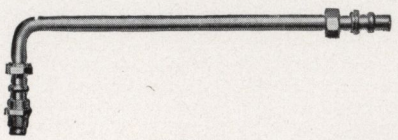


C 38181

C 38181

"Holyoke" Kerosene water heater with new improved blue flame wick and quadruple seamless copper coil.

	No. 80 (Single)	No. 100 (Single)	No. 200 (Double)
Water connections Inches	¾	¾	¾
Height overall Inches	22½	26	26
Capacity Gallons	30	30-40	52-60
Shipping weight, approx. Pounds	49	52	85

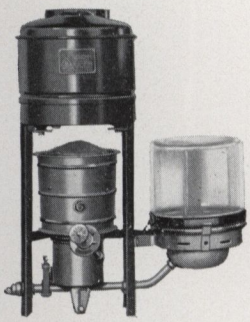


C 38213

"SPEE-DEE" CIRCULATOR

Seamless copper tubing connection complete with necessary fittings for connecting gas water heater to range boiler.

Complete with fittings for heaters with or without unions. Packed in individual carton.



C 38273

C 38273

"Perfection" No. 405 Kerosene water heater with Giant Puritan burner. Cast iron heating unit.

Width overall Inches	18½
Height overall Inches	22
Shipping wt., approx. Pounds	37



C 38277

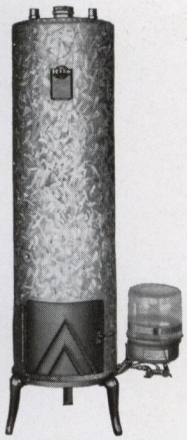
C 38277

"Florence" Kerosene water heater with copper coil and one burner.

Width overall Inches	19
Height overall Inches	41
Shipping weight, approx. Pounds	48

WATER HEATERS

"HI-LO" KEROSENE BURNING WATER HEATER AND TANK COMBINED

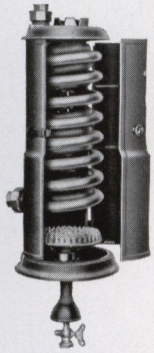


C 38-176

The Hi-Lo Heater burns water white kerosene efficiently and economically. The home beyond the gas mains can now have hot water, plenty of it, and at a surprisingly low cost with a Hi-Lo Heater. Because the Hi-Lo Heater is built with the tank and burner combined making a neat, compact, space saving unit, the installation job is extremely simple and can be handled easily by one man.

Size Number	Storage Capacity Gallons	B.t.u. Ratings	Recovery Gals. Per Hr. 60° Temp. Rise	Overall Height to Top of Drafthead Inches	Overall Width Inches	Water Connections Inches	Size of Flue Required Inches	Shipping Weight Approx. Pounds Galv. Steel Tank Only
22	22	18,500	26	62½	27¼	¾	3	170
30	30	18,500	26	62½	29¼	¾	3	210

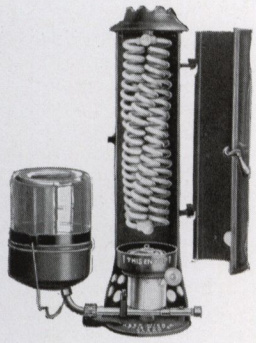
"REX" GAS WATER HEATERS



C 38-210

Size Number	Tank Sizes Gals.	Recovery Capacity Gals. Per Hr. 60° Rise	Copper Coils		Jacket Height Inches	Approx. Shipping Weight Pounds	Jacket Material and Finish
			No.	Length Ft.			
5	20-30	28.0	1	9	16	24	Cast Iron Black Japanned
20, 30, 31	20-30	30.8	2	13½	17¾	30½	
40	30-40	35.0	2	17½	19½	37	
50	30-50	35.0	2	20¼	19½	38½	
70	30-60	35.0	2	23	23	42½	
Nu-Tone 230	20-30	28.0	2	13	20½	25	Insulated, double wall steel Buff baked enamel with Black top and base.
Nu-Tone 240	30-40	31.5	2	14	20½	27	
Nu-Tone 250	30-50	35.0	2	16	20½	29	
800, 155	To 200	62.9	3	37¾	27	80	Cast iron, Aluminum metallic
9	20-30	28.0	Cast Iron		27	27½	Polished blue steel.

Connections—Water: ¾" except No. 800 (1") and No. 155 (1¼")
Gas: ½" (No. 30 has side connection)
Flue: 3" except No. 800 and No. 155 (4")

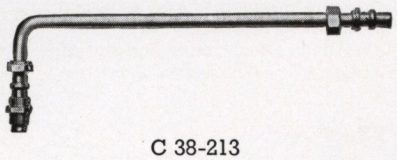


C 38-181

C 38-181

"Holyoke" Kerosene water heater with new improved blue flame wick and quadruple seamless copper coil.

	No. 80 (Single)	No. 100 (Single)	No. 200 (Double)
Water connections ..... Inches	¾	¾	¾
Height overall ..... Inches	22¼	26	26
Capacity ..... Gallons	30	30-40	52-60
Shipping weight, approx. ..... Pounds	49	52	85

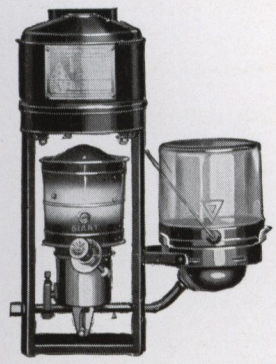


C 38-213

"SPEE-DEE" CIRCULATOR

Seamless copper tubing connection complete with ¾" Universal Adapter for connecting gas water heater to range boiler.

Sizes: 37" and 42½".



C 38-273

C 38-273

"Perfection" No. 405 Kerosene water heater with Giant Puritan burner. Cast iron heating unit.

Width overall ..... Inches	18
Height overall ..... Inches	22¾
Shipping wt., approx. .. Pounds	36



C 38-277

C 38-277

"Florence" Kerosene water heater with copper coil and one burner.

Width overall ..... Inches	19
Height overall ..... Inches	41
Shipping weight, approx. ..... Pounds	48

MR. CONTRACTOR:

This is *YOUR* Magazine

Use it to help you sell!



Designed as a selling aid for Crane Dealers, "The Home Desirable" has been demonstrating its value as such for almost seven years. Read these answers to every question you may have about this important sales help.

What Is "The Home Desirable"?

A twelve-page illustrated monthly magazine, attractively printed in two colors, and edited for home owners. It is designed to be mailed to your customers and prospects in your name which is printed boldly on the address side.

What Is Its Purpose?

It has two. One is to keep your customers and prospects reminded that you are the man to call when anything goes wrong with their present plumbing and heating equipment. The other and more important one is to make them want better and more modern kitchens, bathrooms, heating plants.

Why Is It Effective?

Because it gets into homes where a salesman often could not, and by means of readable, interesting, illustrated stories and articles about modern, up-to-date homes, builds up a desire for the plumbing and heating equipment you sell.

What Assurance Have I That It Will Work for Me?

Just this. It has been working for other contractors for the last six years, and if you mail it regularly to a good mailing list it can do the same for you. If it did not work, we'd be the first to abandon it, for every issue costs Crane Co. money.

Is It Hard to Make a Good Mailing List?

No. Take out your ledger and start with the names of your customers. Don't assume that they are "already yours" and that you don't need to keep after them. They forget you quickly, but if you pleased them the last time, they are your best prospects for the next job and ripe for the suggestive selling of "The Home Desirable." Add also names of new people in the neighborhood, names of doctors, dentists, beauty shops, barber shops, and libraries, places where people have time to read short stories and articles. Your Crane salesman will help you make up your list. Ask him.

How Big a List Do I Need?

About a hundred names make a good number to start with. Some contractors go as high as 600. You'll have no difficulty in finding 100 good names once you start building your list in systematic fashion.

What Is the Subscription Term?

There is no maximum and no minimum. Many contractors have been using "The Home Desirable" as long as it has been published.

What Does It Cost Me?

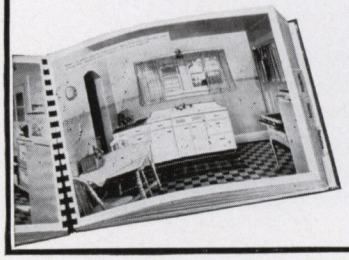
Your Crane branch will bill you monthly at 4c a copy for your share of the cost of preparing the magazines, printing with your name, address, 'phone number, etc., addressing to your list, postage, and mailing. Crane Co. pays the balance. If you want to do your own addressing and mailing, the charge is 2½c a copy, without postage, ready for addressing. In both cases, Crane Co. pays return postage so you will know if any copies are undeliverable and can keep your list corrected. Most contractors prefer to be rid of the bother and inconvenience of doing their own addressing and mailing each month, so they send us their lists and we handle all the details from Chicago. It's a little cheaper for them that way, too.

How Can I Start?

Ask your Crane salesman, or write to Milton D. Harper, The Home Desirable, 836 S. Michigan Avenue, Chicago, Illinois.

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As a user of "The Home Desirable" you receive, free of charge, this book of 74 before-and-after views of modernized kitchens, bathrooms, laundries, and basements. It's bound in fabric covers—with your name stamped on the front. Many contractors say this book, when displayed to modernizing prospects, is the best sales closer they ever used.



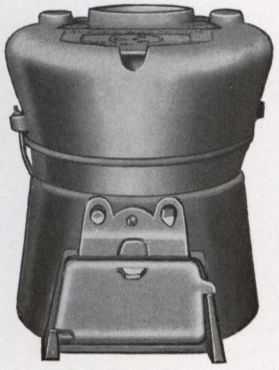
The HOME Desirable

836 SOUTH MICHIGAN AVENUE, CHICAGO, ILLINOIS

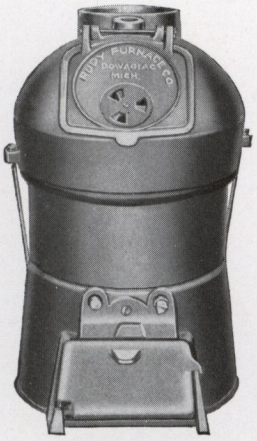
AD-1413

HOT WATER SUPPLY BOILERS & TANK HEATERS

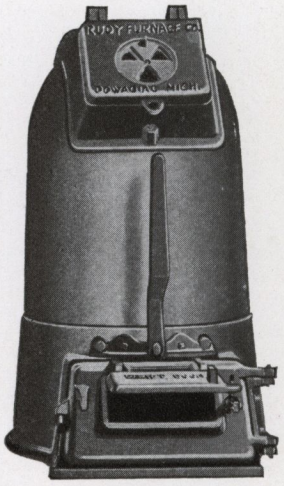
"RUDY" CAST IRON WATER HEATERS



Model Numbers
40 and 50



Model Numbers
52, 60 A, B & C, *65,
75 A & B and 85



Model Numbers
115, 135 and 155

Heater Number	Capacity Gallons Per Hr. 25° Rise	Height Overall (Less Legs) Inches	Height Floor to Center of Inlet	Height Floor to Center of Outlet	Tapped I.P. Size Inches	Grate Diam. Inches	Smoke Pipe Diam. Inches	Approx. Shipping Weight Pounds
40	66	16	12½	16	1	10	5	87
50	85	19	15	19	1	10	5	103
52	85	22	15	22	1	10	5	104
60 A	95	20	9	20	1	10	5	100
60 B	100	22	11	22	1	10	5	107
60 C	110	26	15	26	1	10	5	122
* 65	100	33	14½	18½	1	10	6	170
75 A	125	22	11¼	22	1¼	10	5	104
75 B	130	24	13¼	24	1¼	10	5	118
85	145	28	13¼	28	1¼	10	5	133
115	200	26	11½	26	2	12½	6	238
135	246	29	11½	29	2	12½	6	261
155	290	32	11½	32	2	12½	6	291

*Combination Tank Heater and Incinerator.

Nos. 50, 52, 60C, 65, and 85 are brick lined.

Note: Leg and base section available for any heater—Height 5½ inches for all sizes.

CAST IRON LAUNDRY TANK HEATERS

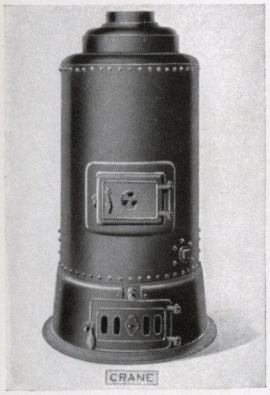


Number	Number of Holes	Capacity Gallons per Hour 30° Rise	Height Inches	Bottom	Diameter of Grate Inches	Size of Top Over All Inches	Approx. Shipping Weight Pounds
78	2	60	22¼	Cast Iron	8	18x20	90
79	2	60	22¼	Steel	8	18x20	85
88	4	60	22¼	Cast Iron	8	20x24½	105
80-C	2	80	24	Cast Iron	9½	19x22	120
480-A	4	80	24	Cast Iron	9½	22½x24½	140

Note: All heaters have 1-inch pipe connection and 6-inch flue collar

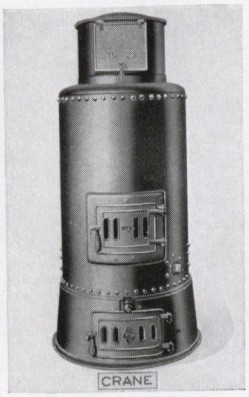
WATER HEATERS AND GARBAGE BURNERS

KEWANEE STEEL HOT WATER HEATERS



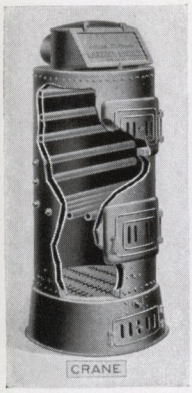
SURFACE BURNING

Number Std.	Number Extra Heavy	Capacity Gallons per Hour 50° Rise	Size of Heater Inches	Total Height Inches	Size Flow and Return Inches	Approximate Shipping Weight, Pounds Surface Burner	Approximate Shipping Weight, Pounds Magazine Feed
17	—	130	17x32	57	2-1¼	500	570
18	150	150	17x36	61	2-1¼	520	590
21	200	200	21x30	55	2-1½	600	700
22	—	250	21x36	62	2-1½	660	760
25	300	300	25x37	63	2-2	880	1030
26	—	350	25x43	69	2-2	950	1100
27	400	400	25x49	75	2-2	1050	1200
30	500	500	30x43	70	2-2½	1220	1400
31	600	600	30x49	76	2-2½	1420	1620
32	700	700	30x58	85	2-2½	1510	1700



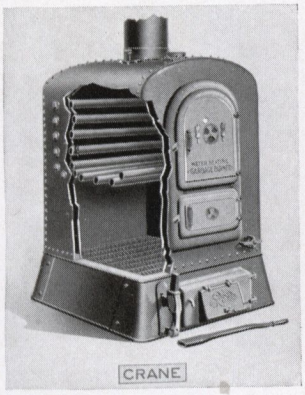
MAGAZINE FEED

KEWANEE WATER HEATING GARBAGE BURNERS



TYPE "A"

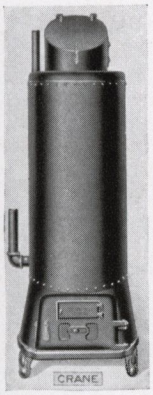
Number	Capacity Gallons Per Hour 50° Rise	Capacity Garbage Chamber Bushels	Height Over-all Inches	Floor Space Required Inches	Size Flow and Return Inches	Diameter Smoke Pipe Inches	Approximate Shipping Weight Pounds
30	200	1	62	22	1½	6	730
Type 31	300	2	68	25	2	8	970
"A" 32	400	3	68	30	2	8	1190
33	600	4	68	36	2	8½	1640
34	500	2	57	29x29	2	9	1650
35	600	3	57	29x35	2	9	1800
Type 36	800	4	57	35x35	2½	10	2100
"D" 37	1000	5	57	35x41	2½	10	2320
38	1200	7	57	35x47	2½	10	2550
39	1500	9	57	41x53	3	12	3100
40	1800	12	57	41x59	3	12	3320
41	1200	6	65	36x38	3	10	2620
Type 42	1500	8	65	38x42	3	10	2820
"H" 43	1800	9	65	38x48	4	10	3020
44	2200	11	65	38x54	4	12	3450
45	2600	12	65	38x60	4	12	3700



TYPE "D"

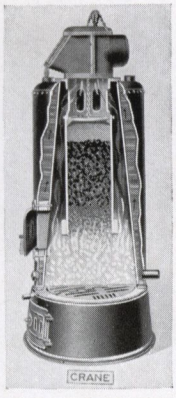
One full charge of garbage can be completely destroyed, on an average, in one hour. Best results are obtained when the capacity of water storage tank is 50 per cent greater than the hourly capacity of the garbage burner to which it is attached.

WILKS
ALL STEEL HOT WATER SUPPLY BOILERS



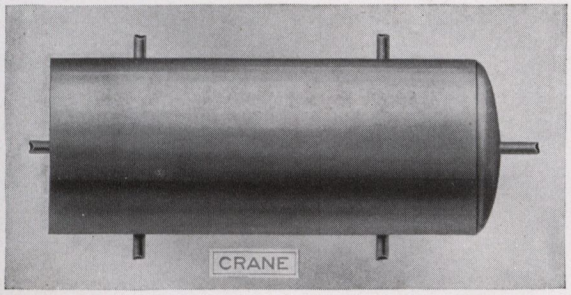
SURFACE BURNERS

Size of Boiler Inches	Capacity Gallons per Hour 50° Rise	Size of Openings Inches	Total Height Inches	Size of Smoke Pipe Inches	Approximate Shipping Weight, Pounds Surface Burner	Approximate Shipping Weight, Pounds Magazine Feed
12x24	65	1	43	5	160	....
12x30	80	1	49	5	170	....
14x30	100	1¼	49	5	200	....
14x36	120	1¼	55	5	235	....
Sizes above available with or without fire door.						
16x24	100	1½	46	5	350	375
16x30	130	1½	52	5	370	400
16x36	150	1½	58	5	385	420
20x30	200	2	54	7	470	520
20x36	250	2	60	7	490	550
20x42	275	2	66	7	510	580
24x36	300	2	60	8	700	780
24x42	350	2	66	8	725	810
24x48	400	2	72	8	750	840
30x42	500	3	67	8	1000	1100
30x48	600	3	73	8	1040	1150
30x54	700	3	79	8	1120	1240
36x42	900	3	68	8	1700	1900
36x48	1000	3	74	8	1780	2000
42x42	1200	3	69	9	2200	2400
42x48	1400	3	75	9	2280	2500



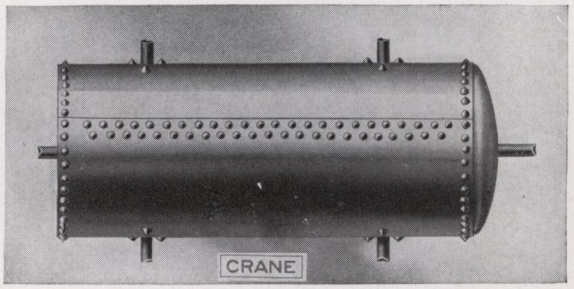
MAGAZINE FEED

STORAGE TANKS



WELDED TYPE

C 38400



RIVETED TYPE

BLACK HOT WATER STORAGE TANKS

Manufacturers' Standard Specifications adopted Jan. 1, 1935

STANDARD

75 Lb. W. P.—115 Lb. Test

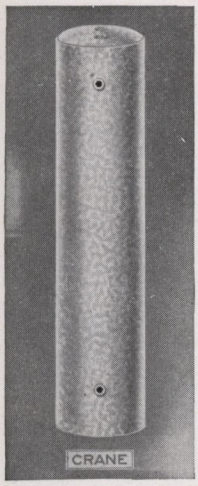
Capacity Gallons	Dimensions Diam. Inches	Dimensions Length Feet	Shell Thickness Inches	Head Thickness Convex Inches	Head Thickness Concave Inches	Regular Openings Inches	Approximate Weight WELDED Pounds	Approximate Weight RIVETED Pounds	Regular Coils (4 Pipes) Black or Galvanized Size
66	20	4	3/16	1/4	1/4	1 1/2	235	270	1″
85	20	5	3/16	1/4	1/4	1 1/2	280	320	1″
100	24	4	3/16	1/4	1/4	1 1/2	290	335	1 1/4″
120	24	5	3/16	1/4	1/4	1 1/2	340	390	1 1/4″
140	24	6	3/16	1/4	1/4	1 1/2	390	445	1 1/4″
150	30	4	3/16	1/4	1/4	2	390	440	1 1/4″
180	30	5	3/16	1/4	1/4	2	455	510	1 1/4″
220	30	6	3/16	1/4	1/4	2	520	580	1 1/4″
250	30	7	3/16	1/4	1/4	2	585	650	1 1/4″
295	30	8	3/16	1/4	1/4	2	650	720	1 1/4″
315	36	6	3/16	1/4	1/4	2	650	715	1 1/2″
365	36	7	3/16	1/4	1/4	2	725	795	1 1/2″
420	36	8	3/16	1/4	1/4	2	800	875	1 1/2″
525	36	10	3/16	1/4	1/4	2	950	1035	1 1/2″
430	42	6	3/16	1/4	5/16	2	820	905	1 1/2″
500	42	7	3/16	1/4	5/16	2	910	1000	1 1/2″
575	42	8	3/16	1/4	5/16	2	1000	1095	1 1/2″
720	42	10	3/16	1/4	5/16	2	1180	1285	1 1/2″
865	42	12	3/16	1/4	5/16	2	1360	1475	1 1/2″
1000	42	14	3/16	1/4	5/16	2	1540	1665	1 1/2″

EXTRA HEAVY

100 Lbs. W. P.—150 Lb. Test

Capacity Gallons	Dimensions Diam. Inches	Dimensions Length Feet	Shell Thickness Inches	Head Thickness Convex Inches	Head Thickness Concave Inches	Regular Openings Inches	Approximate Weight WELDED Pounds	Approximate Weight RIVETED Pounds	Coils Same as for Standard Tanks
66	20	4	3/16	1/4	5/16	1 1/2	245	280	
85	20	5	3/16	1/4	5/16	1 1/2	290	330	
100	24	4	3/16	1/4	5/16	2	300	345	
120	24	5	3/16	1/4	5/16	2	350	400	
140	24	6	3/16	1/4	5/16	2	400	455	
150	30	4	3/16	1/4	5/16	2	405	460	
180	30	5	3/16	1/4	5/16	2	470	530	
220	30	6	3/16	1/4	5/16	2	535	600	
250	30	7	3/16	1/4	5/16	2	600	670	
295	30	8	3/16	1/4	5/16	2	665	740	
315	36	6	1/4	1/4	5/16	2	785	935	
365	36	7	1/4	1/4	5/16	2	880	1045	
420	36	8	1/4	1/4	5/16	2	975	1155	
525	36	10	1/4	1/4	5/16	2	1165	1375	
430	42	6	1/4	1/4	3/8	2	990	1170	
500	42	7	1/4	1/4	3/8	2	1100	1300	
575	42	8	1/4	1/4	3/8	2	1210	1430	
720	42	10	1/4	1/4	3/8	2	1430	1690	
865	42	12	1/4	1/4	3/8	2	1650	1950	
1000	42	14	1/4	1/4	3/8	2	1870	2210	
750	48	8	1/4	3/8	3/8	2	1435	1735	
940	48	10	1/4	3/8	3/8	2	1690	2030	
1130	48	12	1/4	3/8	3/8	2	1945	2325	
1300	48	14	1/4	3/8	3/8	2	2200	2620	
1500	48	16	1/4	3/8	3/8	2	2455	2915	
1700	48	18	1/4	3/8	3/8	2	2710	3210	

RANGE BOILERS AND FITTINGS



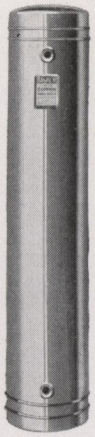
Welded
C 38432
Rivweld
C 38436

GALVANIZED SHEET STEEL RANGE BOILERS WITH FIVE 1-INCH IRON PIPE SIZE TAPPINGS

Capacity Gallons	Nominal Size Inches	Approx. Shipping Weight Standard Pounds Welded	Standard Pounds Rivweld	Ex. Heavy and Dbl. Ex. Heavy Pounds Welded	Ex. Heavy and Dbl. Ex. Heavy Pounds Rivweld
18	12x36	49	51	53	55
24	12x48	59	62	68	71
30	12x60	70	73	87	89
32	14x48	77	80	88	91
40	14x60	92	95	104	108
42	16x48	96	98	136	139
52	16x60	129	132	165	167
66	18x60	157	160	201	204
82	20x60	176	180	209	212
100	22x60	198	194	244	240
120	24x60	228	221	270	263
144	24x72	259	252	303	296
192	24x96	321	316	370	364

1-inch Galvanized Coils can be furnished for vertical and horizontal range boilers.

"BASMOR" EVERDUR COPPER RANGE BOILERS. ELECTRICALLY WELDED—STANDARD TAPPINGS



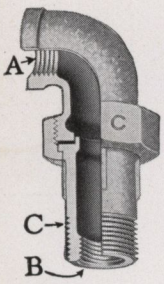
C 38440

Capacity Gallons	Size Inches	Weight—Pounds 85 Lbs. W. P. Standard	106 Lbs. W. P. Extra Heavy	148 Lbs. W. P. Dbl. Ex. Heavy
25	11x60	95	100	105
25	12x48	85	90	95
30	12x60	100	105	110
40	14x60	115	125	140
52	16x60	175	185	195
66	18x60	190	195	205
82	20x60	240	245	255
100	22x60	290	295	305
120	24x60	335	345	360

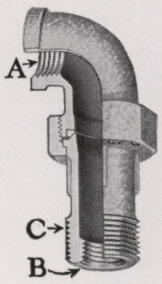
Bronzed legs (set of 3) easily attached, are optional. 25, 30 and 40 gal. sizes are regularly furnished with complete set of brass couplings (4 straight and 1 bent), ¾" size; and copper cold water tube.

CRANE GALVANIZED MALLEABLE CIRCULATING BOILER FITTINGS

UNION ELBOWS

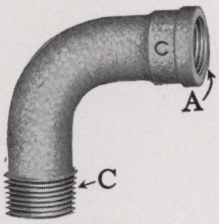


No. 586
(Gasket Type)



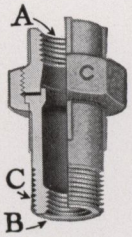
No. 586½
(Ground Joint)

LONG SWEEP ELBOW

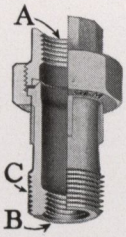


No. 587½

UNION COUPLINGS



No. 589
(Gasket Type)



No. 589½
(Ground Joint)

MEASUREMENTS

	A	B	C	A	B	C	A	B	C
No. 586, 586½.....Inches	¾	¾	1	¾	½	1	½	½	1
***No. 587½.....Inches**	¾	..	1						
No. 589, 589½.....Inches	¾	¾	1	¾	½	1	½	½	1

*No. 587½—3 inches center to end.



C 38460

ASBESTOCEL JACKET FOR RANGE BOILERS

The Asbestocel Jacket is a 3-ply flexible sheet, approximately ¾" thick, furnished in two full-round sections. Available for 30, 40, 66, 82, 100 and 120 gal. sizes.

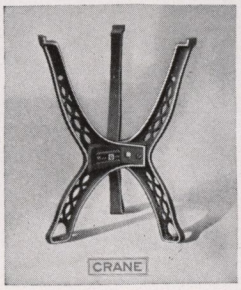
Two finishes: The Asbestocel Jacket is supplied either with a clean, white asbestos paper finish which may be painted if desired, or, where appearance is particularly important, with a de luxe, non-fading aluminum finish.

For covering the range boiler top four pounds of Asbestos Cement are included with each jacket. Three 2" wide black lacquered bands and ten aluminum staples are also furnished. Each jacket, with accessories, is packed in an individual carton.

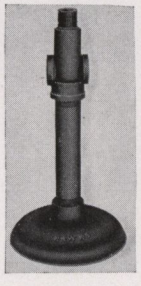
BOILER STANDS



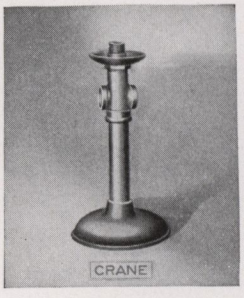
C 38550
RING STAND
ADJUSTABLE HEIGHT
For Boiler Sizes 12, 14, 16, 18, 20, 22 and 24" diameter.



C 38554
TRIPOD ADJUSTABLE STAND
12" for 18 to 40 gal. boiler.
15" for 18 to 40 gal. boiler.

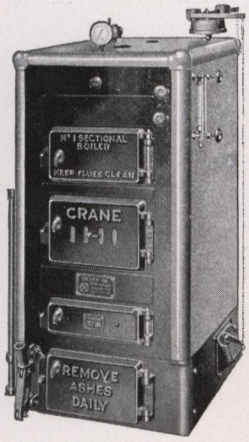


C 38559
UNIVERSAL STAND
With Cast Iron Tee and 1¼"x8" Nipple.



C 38560
UNIVERSAL STAND
With Malleable Iron Tee, Supporting Plate and 1¼"x8" Nipple.

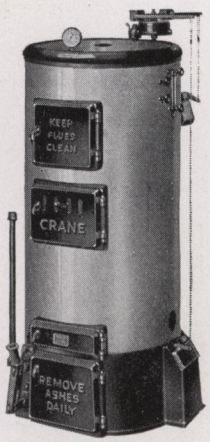
Seven Crane Boilers From Which To Select



Sectional Boiler for Coal Burning



Sectional Boiler for Oil Burning With DeLuxe Jacket



Round Boiler for Coal Burning



Sectional Boiler for Oil Burning

The complete Crane line includes boilers for:

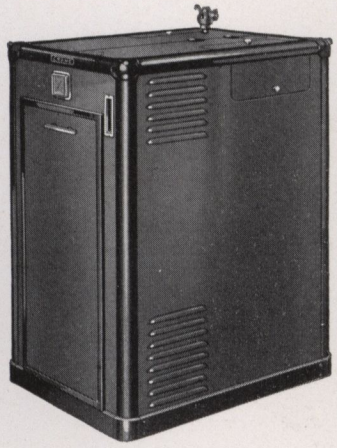
Hot Water,
Steam, Vacuum,
and Vapor

To Burn:

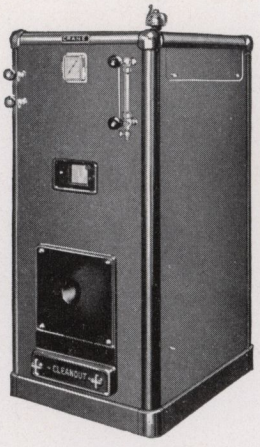
Coal, Coke,
Oil and Gas



Round Boiler for Oil Burning



D1 Oil Burning Boiler With DeLuxe Jacket

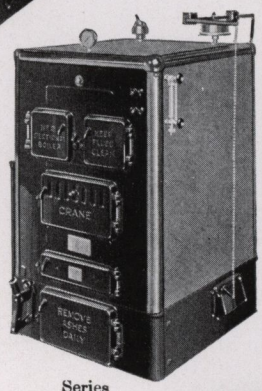


D1 Oil Burning Boiler With Plain Jacket

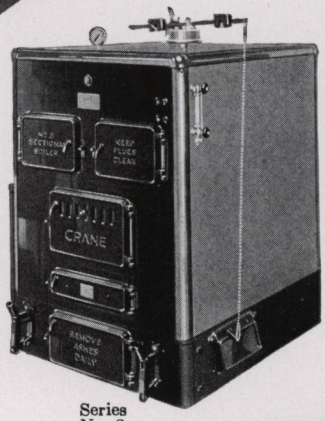
SECTIONAL BOILERS



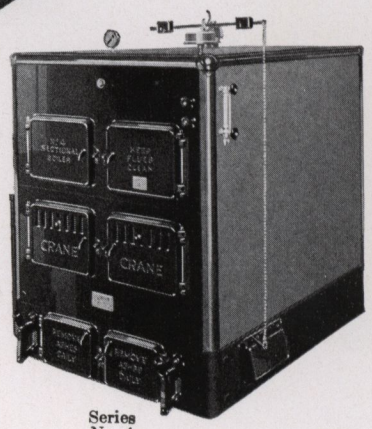
Series No. 1



Series No. 2



Series No. 3

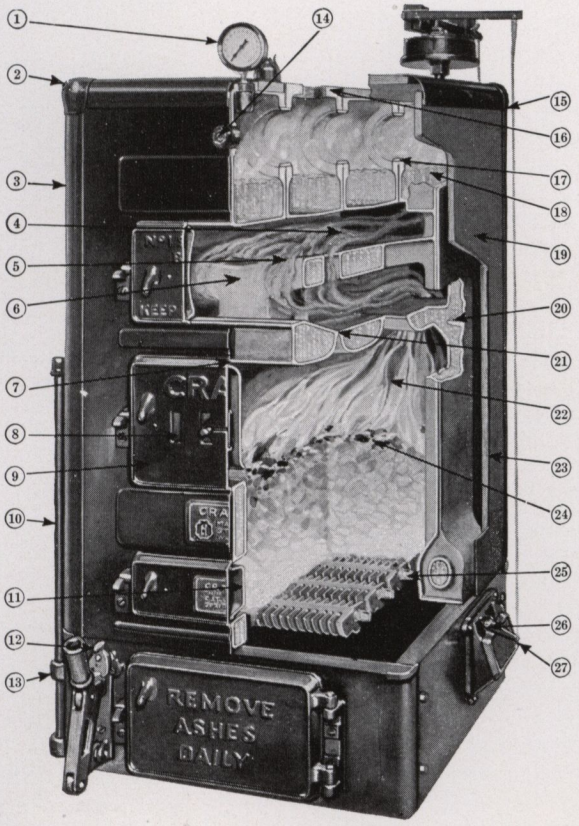


Series No. 4

Sectional Boilers for hot water, steam, vacuum, and vapor heating; to burn all coals, coke, oil or gas; in sizes to fit the requirements of residential and commercial buildings.

These four illustrations show the comparative size and the frontal designs of Sectional Boilers. Their two-tone green jacket, fitting neatly and exactly, give an appeal of beauty and efficiency. Black heat-resisting paint covers exposed parts.

27 Points of Merit in Crane Sectional Boilers



1 Boilers are shipped complete, with try-cocks, pop valves, steam gauges, combination altitude gauges and thermometers, and regulators.

2 Four screws at top corners are tightened to pull jacket up for a perfect fit.

3 Marring of jacket is eliminated because jacket is put on after boiler is installed and ready to operate.

4 Broad flat gas flues have less tendency to collect soot. Scraper is easily inserted for cleaning soot.

5 Elongated two-pass gas flues arranged for controlled water flow and also give approximately 50% more "ceiling" heating surface.

6 Here soot raked forward drops into first pass, then is pushed back to fall into combustion chamber.

7 All doors and dampers have accurately ground flat surfaces which permit them to shut tight.

8 Fire door has secondary air distributor.

9 Heat resisting black paint is used for base, front, doors, and all exposed parts.

10 Steel shaker handle is unbreakable.

11 Boiler doors equipped with baffle linings, flue doors with curved baffles for easy turning of gas flow.

12 Grate shaker bar locking device locks with a tap of the foot. It has three positions, one for shaking, one for dumping, and one for locking in place.

13 Socket on left side of boiler holds shaker handle when not in use. Prevents its getting misplaced or lost.

14 Surface blow-off tapping is provided.

15 Smoke damper with positive indicator on two-way smoke hood has a locking device which holds it in position.

16 Threaded openings maintain the Crane standard of precision which makes for easy installation.

17 Push nipple openings are uniformly accurate.

18 Boiling water reaches water line at points most remote from outlet, giving less turbulent water line and drier steam.

19 Two-tone green jacket gives the Crane boiler the appeal of beauty.

20 Patented baffles direct water across top of combustion chamber, giving controlled and longer water travel, and therefore faster water travel.

21 Flat surfaces of all sections are accurately ground by specially designed machines to give a tight, true fit.

22 The back wall, which is exposed to hottest gases, is corrugated to eliminate strains.

23 Sides and top insulated with improved asbestos air cell attached to jacket. Will not sag or drop down.

24 Grate area, combustion chamber, and heating surfaces properly proportioned for longest firing periods and efficient operation.

25 Non-jumping sockets for grate ends prevent grates being thrown out of place when clinkers catch between the teeth. Grates are sloping, and are designed to burn all sizes of coal, including buckwheat or pea coal.

26 Brass pivots at bearings minimize friction and prevent corrosion that would make damper stick, insuring sensitive response to control.

27 Malleable iron damper door levers are so attached as to give much better leverage; and a sensitive, accurate, easy control by automatic regulator. (Applies to coal boilers only.)

Controlled Water Travel

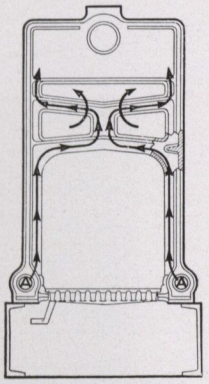
How this and other improvements in the Crane Sectional Boiler give more heat from fuel, easier tending, and economical installation

The efficient transfer of heat from fuel to the heating medium is the primary consideration in designing a boiler. Crane engineers accomplished this by devoting major attention to improving interior design, resulting in *controlled water travel.*

This outstanding feature consists in directing the water in the boiler over definite paths to absorb the maximum amount of heat.

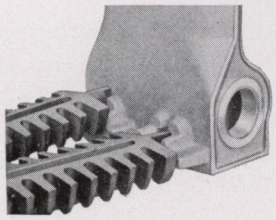
Water rising up each leg is turned across the top of the combustion chamber by *patented baffles*. Here it rises through a passage formed by the inner sides of the first pass flues to the upper water travel where the stream is divided and flows outwardly to each side of the boiler. It then rises to the dome and, it will be noted, reaches the water line at points most remote from the outlet, resulting in a less turbulent water line and drier steam.

The elongated gas flues of both the first and second pass present a maximum of *ceiling heating surface* and the water passing over these most efficient heating surfaces travels a greater distance and at a higher rate of flow, with a scrubbing action that breaks down insulating film.



This diagram illustrates the Controlled Water Travel in the Crane Sectional Boiler.

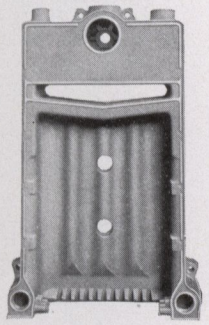
Manufacturing precision means a neater, better job, and low cost installation



This simple ingenious non-jumping socket for grate ends prevents grates from jumping out during shaking.

In Crane products, manufacturing precision has always been outstanding. Fine workmanship that makes all parts fit together into a unit of first quality is a marked feature of the Crane boiler.

Specially designed machines are used to accurately grind flat surfaces of sections so that no cracks or air holes are left. Push nipple openings are reamed with hair-breadth precision, at one operation to insure accurate alignment. Threaded connections are evenly cut and true to gauge. Every part goes smoothly into place, every connection is quickly made tight. Time and installation costs are saved.



The corrugated back wall eliminates strains and guards against cracking at the points where gases are hottest.

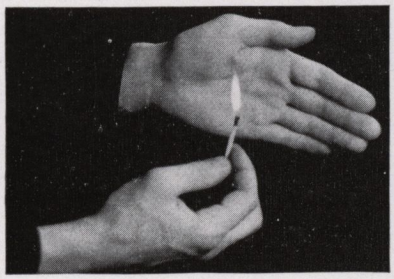
The jacket has been especially planned for exactness in fit and ease in installation. After the boiler is installed and tested, simply set the panels in place, insert and tighten four screws at top corners. The jacket need never be marred in making adjustments. Even to the packaging, easy installation has been kept in mind. Parts are shipped to be opened in rotation as needed for assembly. Workmen need not search in a confused litter of parts.

The socket at the side for the shaker handle keeps it always at hand. Other work-saving devices as simple and effective will be found listed among the 27 points of merit.

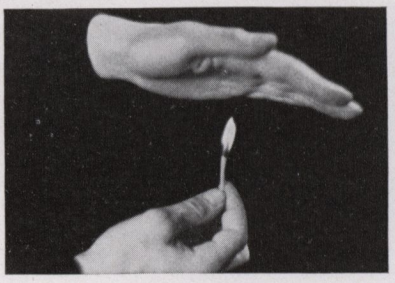
These and other superiorities will be clearly recognized when you see this boiler. Compare it with others. You will recognize its outstanding features.

The Value of More Ceiling Heating Surface

It gives extra efficiency in fuel burning at no extra cost. Try this simple test:



1 — Light a match, place your hand to one side . . . not so hot.



2 — Hold your hand above . . now . . feel the difference

Crane Boilers are Designed to Afford Greater Ceiling Heating Surface

How to choose the correct size of Crane boiler for the job

Crane rating tables use the accepted practice of expressing all boiler outputs in B.t.u. and in square feet of direct cast iron radiation based on the engineering standard of heat emission of 240 B.t.u. for steam and 150 B.t.u. for hot water, per square foot of radiator surface per hour.

Choosing a hard coal burning boiler

Hard coal burning outputs are figured on hard coal of commercial size, moisture free, 12,500 B.t.u. heat value, steam at 2 pounds pressure, and chimney dimensions as specified.

To choose the proper size hard coal boiler, turn to the rating table showing at top of column, the total equivalent direct radiation load. Take next higher figure above the actual equivalent direct radiation load. Follow down column until columns are enclosed in parallel heavy lines. Follow to left of page, and recommended boiler is indicated.

As an example. To choose a steam boiler for hard coal, with total equivalent direct radiation load of 375 square feet. Turn to table on page 148—2. Run to the figure 400 in italics, next higher than 375. Follow down the 400 column to data enclosed between vertical heavy lines. Indicated boilers are Nos. 1-6-S or 1-7-S or 1-8-S, one of which can be chosen depending on firing period and combustion rate desired.

Second example. To choose hot water boiler for hard coal, with total load of 1600 square feet radiation. Turn to page 149—1. Go to figure 1640 in black at top of column. Follow down column to data enclosed between vertical heavy lines. Indicated boilers are Nos. 2-8-W or 2-9-W or 2-10-W, one of which can be chosen depending on firing period and combustion rate desired.

Choosing a soft coal burning boiler

Soft coal burning outputs are based on use of free burning or coking 3″ x 2″ lump size soft coal, moisture free. Wide variations in types, characteristics, and heat producing capacities of soft coal make it impracticable to use the same system of selection as is given for hard coal. Crane boiler recommendations for soft coal are made on correct outputs for the load of equivalent direct steam and hot water radiation in relation to pounds of soft coal burned per square foot of grate area per hour. Experience has proved that the practical dependable rate of burning is five pounds per square foot of grate area per hour for No. 1 boiler, 6 pounds for No. 2, 7 pounds for No. 3, and 8 pounds for No. 4.

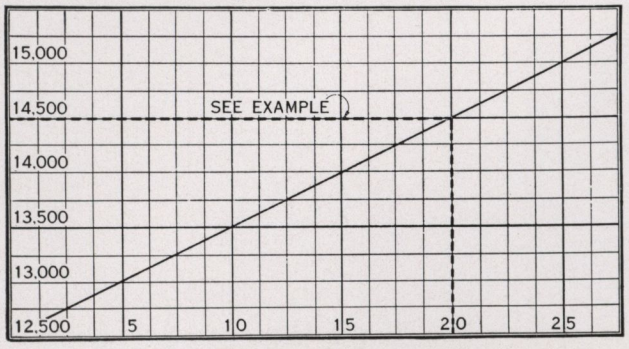
Method of choosing boiler size for fuels other than 12,500 B.t.u. per pound calorific value

The performance data given for Crane boilers are based on fuel having a calorific value of 12,500 B.t.u. per pound. We find that if the fuel value varies from this figure an allowance of 1% per 100 B.t.u. should be made; for example, if the fuel to be used has a calorific value of 12,000 B.t.u. instead of 12,500 B.t.u. the output required of the boiler should be increased 5%. On the other hand, if the fuel should have a calorific value of 14,000 B.t.u. per pound the required output should be decreased 15%.

To explain further, let us assume the following case:

Radiator Load	500 sq. ft.
Piping Load (in equivalent direct radiation)	100 sq. ft.
Fuel to be used	14,000 B.t.u. per pound
Radiator Load	500 sq. ft.
Piping Load	100 sq. ft.
Total equivalent radiator load	600 sq. ft.
Less 15% fuel correction factor	90 sq. ft.
Equivalent boiler output for 12,500 B.t.u. fuel	510 sq. ft.

This is the proper figure for "output in equivalent direct radiation" to be used for selecting a boiler from the Crane performance data tables.



To simplify and quicken the calculations given above, a condensed method is shown in the accompanying chart. Determine the B.t.u. value of the fuel to be used. Where the horizontal line, denoting the fuel value, intersects the diagonal, it also intersects a vertical line, which represents the percentage by which the boiler size may be decreased.

Example (see chart):

14,500 B.t.u. per lb. coal to be used. Steam Radiation and Piping—550 sq. ft.

Note: According to chart, on 14,500 B.t.u. coal, boiler size may be reduced 20%.

Therefore: 550 sq. ft. of steam radiation, less 20% = 440 sq. ft., total load.

On page 148—2, with this fuel, we find that a Crane No. 1-7-S should be selected, whereas with 12,500 B.t.u. fuel, a Crane No. 1-8-S would ordinarily be required.

No. 1—Crane Sectional Boiler—Performance Data

Number of Boiler	Output in Equivalent Direct Radiation Sq. Ft.																				Fuel Cap. Fuel Avail.	Stack Size and Hght.
	Steam (240 B.t.u.)	*100*	*175*	*250*	*325*	*400*	*475*	*550*	*625*	*700*	*775*	*850*	*925*	*1000*	*1075*	*1150*	*1225*	*1300*	*1375*	*1450*		
	Water (150 B.t.u.)	**160**	**280**	**400**	**520**	**640**	**760**	**880**	**1000**	**1120**	**1240**	**1360**	**1480**	**1600**	**1720**	**1840**	**1960**	**2080**	**2200**	**2320**		
	B.t.u. Per Hour (1000's)	24	42	60	78	96	114	132	150	168	186	204	222	240	258	276	294	312	330	348		
1-4-S **1-4-W**	**Firing Period—Hours**	**33.9**	**19.1**	**13.3**	**10.1**	**8.2**															125# Cap.	8x8 Ins.
	Boiler Efficiency—%	68.6	67.7	67.2	66.5	66.4																
	Stack Gas Temp.—°F	300	375	450	525	600																
Grate Area	**Combustion Rate**	**2.00**	**3.55**	**5.10**	**6.70**	**8.25**															95#	30 ft.
1.40 Sq. Ft.	Draft—Ins. of Water	.030	.034	.045	.062	.085															Avail.	High
1-5-S **1-5-W**	**Firing Period—Hours**		**26.5**	**18.5**	**14.3**	**11.6**	**9.7**	**8.3**													170# Cap.	8x8 Ins.
	Boiler Efficiency—%		68.6	68.5	68.4	68.2	68.0	67.7														
	Stack Gas Temp.—°F		320	390	455	525	590	660														
Grate Area	**Combustion Rate**		**2.58**	**3.69**	**4.80**	**5.92**	**7.05**	**8.20**													130#	30 ft.
1.90 Sq. Ft.	Draft—Ins. of Water		.030	.037	.048	.065	.087	.110													Avail.	High
1-6-S **1-6-W**	**Firing Period—Hours**			**24.6**	**18.8**	**15.1**	**12.6**	**10.7**	**9.4**	**8.4**	**7.5**										215# Cap.	8x8 Ins.
	Boiler Efficiency—%			71.4	71.0	70.0	69.6	68.8	68.5	68.3	67.8											
	Stack Gas Temp.—°F			345	395	450	505	560	615	670	720											
Grate Area	**Combustion Rate**			**2.80**	**3.68**	**4.55**	**5.46**	**6.40**	**7.30**	**8.20**	**9.15**										165#	30 ft.
2.40 Sq. Ft.	Draft—Ins. of Water			.027	.033	.046	.065	.084	.105	.130	.160										Avail.	High
1-7-S **1-7-W**	**Firing Period—Hours**				**23.1**	**18.7**	**15.7**	**13.3**	**11.6**	**10.3**	**9.3**	**8.4**	**7.7**								260# Cap.	8x12 Ins.
	Boiler Efficiency—%				72.2	71.6	71.1	70.0	69.8	69.2	68.9	68.7	68.4									
	Stack Gas Temp.—°F				330	385	440	490	540	595	650	700	755									
Grate Area	**Combustion Rate**				**2.98**	**3.70**	**4.42**	**5.20**	**5.93**	**6.70**	**7.45**	**8.20**	**8.95**								200#	35 ft.
2.90 Sq. Ft.	Draft—Ins. of Water				.027	.034	.045	.060	.080	.100	.125	.150	.170								Avail.	High
1-8-S **1-8-W**	**Firing Period—Hours**					**22.3**	**18.8**	**16.0**	**13.4**	**12.3**	**11.1**	**10.1**	**9.2**	**8.4**	**7.8**	**7.3**					305# Cap.	8x12 Ins.
	Boiler Efficiency—%					72.9	72.5	72.1	71.3	70.6	70.2	70.0	69.6	68.9	68.6	68.3						
	Stack Gas Temp.—°F					325	380	425	480	525	570	625	670	725	780	825						
Grate Area	**Combustion Rate**					**3.10**	**3.70**	**4.31**	**4.95**	**5.60**	**6.23**	**6.85**	**7.50**	**8.20**	**8.85**	**9.5**					235#	35 ft.
3.40 Sq. Ft.	Draft—Ins. of Water					.028	.036	.048	.062	.078	.096	.115	.138	.160	.180	.200					Avail.	High
1-9-S **1-9-W**	**Firing Period—Hours**						**22.0**	**18.8**	**16.5**	**14.8**	**13.2**	**11.9**	**10.9**	**10.0**	**9.3**	**8.8**	**8.1**	**7.6**			350# Cap.	8x12 Ins.
	Boiler Efficiency—%						74.2	73.6	73.3	73.0	72.5	72.1	71.7	71.3	71.0	70.8	70.5	70.3				
	Stack Gas Temp.—°F						295	345	405	445	500	555	605	645	705	750	795	850				
Grate Area	**Combustion Rate**						**3.15**	**3.68**	**4.20**	**4.72**	**5.26**	**5.80**	**6.35**	**6.90**	**7.45**	**8.00**	**8.55**	**9.10**			270#	35 ft.
3.90 Sq. Ft.	Draft—Ins. of Water						.029	.036	.047	.060	.073	.088	.105	.120	.145	.160	.180	.200			Avail.	High
1-10-S **1-10-W**	**Firing Period—Hours**							**21.5**	**18.9**	**16.8**	**15.1**	**13.7**	**12.6**	**11.6**	**10.8**	**9.9**	**9.3**	**8.7**	**8.2**	**7.7**	395# Cap.	12x12 Ins.
	Boiler Efficiency—%							75.0	74.5	74.1	73.8	73.5	73.1	72.8	72.4	72.0	71.6	71.3	71.0	70.6		
	Stack Gas Temp.—°F							280	325	370	420	465	510	555	600	650	690	740	785	830		
Grate Area	**Combustion Rate**							**3.20**	**3.66**	**4.12**	**4.58**	**5.05**	**5.52**	**6.00**	**6.48**	**6.97**	**7.47**	**7.96**	**8.45**	**8.96**	305#	35 ft.
4.40 Sq. Ft.	Draft—Ins. of Water							.030	.038	.048	.060	.072	.085	.099	.112	.127	.143	.160	.180	.200	Avail.	High

To select boiler required add actual radiator load (in sq. ft.) to piping load (in equivalent sq. ft. of radiation).

This total load is the output in equivalent direct radiation to be used. Select boiler between heavy lines having the desired firing period and combustion rate.

The above tables are based on fuel having 12,500 B.t.u. per pound.

For fuels of other calorific values see page 148—1 for method of determining total load.

REVISED NOVEMBER, 1935

No. 2—Crane Sectional Boiler—Performance Data

Number of Boiler	Output in Equivalent Direct Radiation Sq.Ft.																										Fuel Cap. Fuel Avail.	Stack Size and Hght.
	Steam (240 B.t.u.)	*400*	*525*	*650*	*775*	*900*	*1025*	*1150*	*1275*	*1400*	*1525*	*1650*	*1775*	*1900*	*2025*	*2150*	*2275*	*2400*	*2525*	*2650*	*2775*	*2900*	*3025*	*3150*	*3275*	*3400*		
	Water (150 B.t.u.)	**640**	**840**	**1040**	**1240**	**1440**	**1640**	**1840**	**2040**	**2240**	**2440**	**2640**	**2840**	**3040**	**3240**	**3440**	**3640**	**3840**	**4040**	**4240**	**4440**	**4640**	**4840**	**5040**	**5240**	**5440**		
	B.t.u. per Hour (1000's)	96	126	156	186	216	246	276	306	336	366	396	426	456	486	516	546	576	606	636	666	696	726	756	786	816		
2-5-S **2-5-W**	**Firing Period—Hours**	**23.4**	**17.5**	**13.9**	**11.7**	**9.9**	**8.7**	**7.8**																			325#	8x12
	Boiler Efficiency—%	73.4	71.9	71.0	70.5	70.0	69.3	69.1																			Cap.	Ins.
	Stack Gas Temp.—°F	445	520	600	675	750	820	900																				
Grate Area	**Combustion Rate**	**2.95**	**3.95**	**4.95**	**5.95**	**6.95**	**8.00**	**9.00**																			245#	35 ft.
3.55 Sq. Ft.	Draft—Ins. of Water	.017	.027	.040	.055	.073	.092	.110																			Avail.	High
2-6-S **2-6-W**	**Firing Period—Hours**		**22.6**	**18.0**	**14.9**	**12.8**	**11.1**	**9.8**	**8.8**	**7.9**																	410#	12x12
	Boiler Efficiency—%		73.4	72.4	71.6	71.1	70.3	69.6	69.3	68.8																	Cap.	Ins.
	Stack Gas Temp.—°F		500	550	610	660	710	770	830	880																		
Grate Area	**Combustion Rate**		**3.05**	**3.83**	**4.62**	**5.40**	**6.22**	**7.05**	**7.85**	**8.70**																	310#	35 ft.
4.50 Sq. Ft.	Draft—Ins. of Water		.023	.033	.044	.054	.073	.089	.105	.125																	Avail.	High
2-7-S **2-7-W**	**Firing Period—Hours**		**27.5**	**21.9**	**18.2**	**15.5**	**13.6**	**12.0**	**10.8**	**9.8**	**8.9**	**8.2**	**7.6**														495#	12x12
	Boiler Efficiency—%		73.8	72.9	72.2	71.5	70.8	70.5	70.2	69.5	69.3	69.2	68.8														Cap.	Ins.
	Stack Gas Temp.—°F		450	495	550	605	655	695	750	800	855	905	950															
Grate Area	**Combustion Rate**		**2.50**	**3.14**	**3.78**	**4.43**	**5.10**	**5.75**	**6.40**	**7.10**	**7.75**	**8.40**	**9.10**														375#	35 ft.
5.45 Sq. Ft.	Draft—Ins. of Water		.022	.027	.037	.049	.062	.075	.090	.105	.120	.140	.160														Avail.	High
2-8-S **2-8-W**	**Firing Period—Hours**			**25.8**	**21.4**	**18.3**	**15.9**	**14.0**	**12.5**	**11.4**	**10.4**	**9.7**	**8.9**	**8.2**	**7.8**													580#	12x12
	Boiler Efficiency—%			72.8	72.2	71.8	71.2	70.5	69.8	69.5	69.3	69.2	68.7	67.9	67.7												Cap.	Ins.
	Stack Gas Temp.—°F			445	490	535	575	630	680	730	775	820	870	915	965													
Grate Area	**Combustion Rate**			**2.68**	**3.22**	**3.76**	**4.32**	**4.90**	**5.48**	**6.04**	**6.60**	**7.15**	**7.75**	**8.40**	**8.95**												440#	40 ft.
6.40 Sq. Ft.	Draft—Ins. of Water			.019	.029	.042	.053	.065	.077	.092	.105	.120	.135	.155	.175												Avail.	High
2-9-S **2-9-W**	**Firing Period—Hours**				**25.0**	**21.3**	**18.6**	**16.4**	**14.8**	**13.4**	**12.1**	**11.3**	**10.4**	**9.8**	**9.0**	**8.5**	**8.0**	**7.6**										665#	12x16
	Boiler Efficiency—%				73.7	73.0	72.4	71.9	71.6	71.3	71.0	70.7	70.2	69.9	69.4	68.9	68.8	68.7									Cap.	Ins.
	Stack Gas Temp.—°F				470	515	550	590	630	665	710	750	785	825	870	900	935	950										
Grate Area	**Combustion Rate**				**2.75**	**3.22**	**3.70**	**4.18**	**4.65**	**5.13**	**5.70**	**6.10**	**6.60**	**7.10**	**7.62**	**8.15**	**8.62**	**9.10**										505#	40 ft.
7.35 Sq. Ft.	Draft—Ins. of Water				.028	.038	.047	.057	.069	.082	.095	.108	.122	.137	.150	.170	.185	.210										Avail.	High
2-10-S **2-10-W**	**Firing Period—Hours**					**24.5**	**21.3**	**18.8**	**16.7**	**15.2**	**13.9**	**12.7**	**11.8**	**10.9**	**10.2**	**9.7**	**9.0**	**8.5**	**8.1**	**7.8**								750#	12x16
	Boiler Efficiency—%					74.2	73.5	72.9	71.9	71.7	71.3	70.8	70.5	69.9	69.7	69.5	69.2	68.9	68.7	68.6								Cap.	Ins.
	Stack Gas Temp.—°F					475	510	540	575	610	650	680	715	750	775	820	850	890	925	960									
Grate Area	**Combustion Rate**					**2.81**	**3.23**	**3.65**	**4.10**	**4.52**	**4.95**	**5.40**	**5.82**	**6.30**	**6.72**	**7.15**	**7.60**	**8.05**	**8.50**	**8.93**								570#	45 ft.
8.30 Sq. Ft.	Draft—Ins. of Water					.034	.042	.052	.063	.075	.087	.100	.114	.130	.145	.160	1.75	.195	.215	.230								Avail.	High
2-11-S **2-11-W**	**Firing Period—Hours**						**23.8**	**20.9**	**18.8**	**17.0**	**15.6**	**14.3**	**13.2**	**12.3**	**11.6**	**10.8**	**10.2**	**9.8**	**9.2**	**8.8**	**8.3**	**7.8**						835#	12x16
	Boiler Efficiency—%						73.4	72.9	72.5	72.0	71.6	71.3	70.9	70.5	70.4	70.3	70.2	70.1	69.9	69.6	69.3	68.8						Cap.	Ins.
	Stack Gas Temp.—°F						485	510	535	570	600	630	665	695	730	765	800	825	860	885	925	960							
Grate Area	**Combustion Rate**						**2.90**	**3.28**	**3.65**	**4.04**	**4.42**	**4.80**	**5.20**	**5.60**	**5.98**	**6.35**	**6.72**	**7.10**	**7.50**	**7.90**	**8.30**	**8.75**						635#	45 ft.
9.25 Sq. Ft.	Draft—Ins. of Water						.038	.047	.057	.068	.077	.088	.100	.110	.125	.137	.150	.170	.180	.200	.215	.230						Avail.	High
2-12-SS **2-12-WS**	**Firing Period—Hours**							**23.7**	**21.1**	**19.0**	**17.4**	**15.9**	**14.7**	**13.7**	**12.8**	**12.0**	**11.4**	**10.7**	**10.2**	**9.7**	**9.2**	**8.8**	**8.4**	**8.0**	**7.7**		920#	12x16
	Boiler Efficiency—%							74.6	73.8	73.2	72.6	72.2	71.8	71.5	71.2	71.0	70.8	70.6	70.4	70.2	70.0	69.8	69.7	69.6	69.5		Cap.	Ins.
	Stack Gas Temp.—°F							470	500	530	560	590	620	650	675	705	735	765	795	825	855	885	910	940	970			
Grate Area	**Combustion Rate**							**2.90**	**3.25**	**3.60**	**3.95**	**4.30**	**4.65**	**5.00**	**5.35**	**5.70**	**6.04**	**6.40**	**6.75**	**7.10**	**7.46**	**7.82**	**8.17**	**8.52**	**8.87**		700#	45 ft.
10.20 Sq. Ft.	Draft—Ins. of Water							.042	.050	.060	.069	.080	.089	.100	.110	.122	.135	.150	.160	.175	.190	.205	.220	.235	.250		Avail.	High
2-13-SS **2-13-WS**	**Firing Period—Hours**								**23.6**	**21.3**	**19.3**	**17.7**	**16.4**	**15.3**	**14.3**	**13.5**	**12.7**	**12.0**	**11.4**	**10.8**	**10.3**	**9.8**	**9.4**	**9.0**	**8.6**	**8.3**	1005#	16x16
	Boiler Efficiency—%								75.7	74.9	74.0	73.4	73.0	72.8	72.6	72.5	72.4	72.2	72.0	71.8	71.6	71.4	71.3	71.2	71.0	70.7	Cap.	Ins.
	Stack Gas Temp.—°F								465	490	515	545	570	595	625	650	675	705	730	755	785	810	835	865	890	915		
Grate Area	**Combustion Rate**								**2.90**	**3.22**	**3.55**	**3.87**	**4.18**	**4.48**	**4.80**	**5.10**	**5.41**	**5.73**	**6.04**	**6.35**	**6.67**	**6.98**	**7.30**	**7.62**	**7.93**	**8.30**	765#	45 ft.
11.15 Sq. Ft.	Draft—Ins. of Water								.045	.054	.061	.070	.078	.089	.100	.110	.120	.132	.145	.155	.170	.185	.200	.212	.225	.240	Avail.	High

To select boiler required add actual radiator load (in sq. ft.) to piping load (in equivalent sq. ft. of radiation).
This total load is the output in equivalent direct radiation to be used. Select boiler between heavy lines having the desired firing period and combustion rate.
The above tables are based on fuel having 12,500 B.t.u. per pound.
For fuels of other calorific values see page 148—1 for method of determining total load.

No. 3—Crane Sectional Boiler—Performance Data

Number of Boiler	Output in Equivalent Direct Radiation Sq. Ft.																									Fuel Cap. Fuel Avail.	Stack Size and Hght.
	Steam (240 B.t.u.)	*875*	*1125*	*1375*	*1625*	*1875*	*2125*	*2375*	*2625*	*2875*	*3125*	*3375*	*3625*	*3875*	*4125*	*4375*	*4625*	*4875*	*5125*	*5375*	*5625*	*5875*	*6125*	*6375*	*6625*		
	Water (150 B.t.u.)	**1400**	**1800**	**2200**	**2600**	**3000**	**3400**	**3800**	**4200**	**4600**	**5000**	**5400**	**5800**	**6200**	**6600**	**7000**	**7400**	**7800**	**8200**	**8600**	**9000**	**9400**	**9800**	**10200**	**10600**		
	B.t.u. Per Hour (1000's)	210	270	330	390	450	510	570	630	690	750	810	870	930	990	1050	1110	1170	1230	1290	1350	1410	1470	1530	1590		
3-6-S **3-6-W**	**Firing Period—Hours**	**20.0**	**15.4**	**12.5**	**10.5**	**9.0**	**7.8**	**6.8**	**6.1**																	630# Cap.	12x16 Ins.
	Boiler Efficiency—%	71.0	70.2	69.7	69.0	68.2	67.0	65.8	65.0																		
	Stack Gas Temp.—°F.	355	420	470	525	580	630	690	740																		
Grate Area	**Combustion Rate**	**3.18**	**4.13**	**5.09**	**6.07**	**7.09**	**8.18**	**9.30**	**10.40**																	473#	40 ft.
7.45 Sq. Ft.	Draft— Ins. of Water	.025	.035	.047	.060	.073	.087	.102	.117																	Avail.	High
3-7-S **3-7-W**	**Firing Period—Hours**	**23.8**	**19.0**	**15.3**	**12.8**	**12.1**	**9.6**	**8.4**	**7.5**	**6.7**	**6.1**															760# Cap.	16x16 Ins.
	Boiler Efficiency—%	72.5	72.0	71.1	69.9	69.0	68.2	67.1	66.0	65.1	64.0																
	Stack Gas Temp.—°F.	370	410	455	515	560	605	665	710	755	805																
Grate Area	**Combustion Rate**	**2.68**	**3.35**	**4.15**	**4.99**	**5.83**	**6.68**	**7.60**	**8.53**	**9.47**	**10.40**															570#	45 ft.
8.95 Sq. Ft.	Draft—Ins. of Water	.021	.026	.035	.044	.054	.070	.086	.100	.112	.127															Avail.	High
3-8-S **3-8-W**	**Firing Period—Hours**		**22.5**	**18.2**	**15.2**	**14.4**	**13.7**	**10.0**	**9.0**	**8.1**	**7.4**	**6.7**	**6.1**													890# Cap.	16x16 Ins.
	Boiler Efficiency—%		72.8	72.0	71.0	70.2	69.3	68.6	68.0	67.0	66.1	65.0	64.1														
	Stack Gas Temp.—°F.		375	415	460	510	565	620	665	710	760	815	870														
Grate Area	**Combustion Rate**		**2.84**	**3.51**	**4.21**	**4.91**	**5.64**	**6.36**	**7.09**	**7.88**	**8.70**	**9.55**	**10.40**													668#	50 ft.
10.45 Sq. Ft.	Draft—Ins. of Water		.026	.035	.044	.054	.066	.077	.088	.100	.113	.125	.140													Avail.	High
3-9-S **3-9-W**	**Firing Period—Hours**			**21.2**	**17.6**	**16.7**	**14.4**	**11.7**	**10.5**	**9.4**	**8.5**	**7.9**	**7.2**	**6.7**	**6.2**											1020# Cap.	16x20 Ins.
	Boiler Efficiency—%			72.5	71.8	71.0	70.3	69.5	69.0	68.0	67.3	66.5	65.8	65.0	64.0												
	Stack Gas Temp.—°F.			405	450	500	540	590	635	675	720	765	810	850	900												
Grate Area	**Combustion Rate**			**3.05**	**3.64**	**4.24**	**4.86**	**5.49**	**6.11**	**6.80**	**7.46**	**8.16**	**8.86**	**9.59**	**10.37**											765#	50 ft.
11.95 Sq. Ft.	Draft—Ins. of Water			.026	.034	.044	.055	.065	.078	.091	.105	.120	.135	.150	.167											Avail.	High
3-10-S **3-10-W**	**Firing Period—Hours**				**20.0**	**17.2**	**15.1**	**13.3**	**12.0**	**10.8**	**9.8**	**9.0**	**8.3**	**7.7**	**7.1**	**6.6**	**6.1**										1150# Cap.	16x20 Ins.
	Boiler Efficiency—%				72.7	72.0	71.2	70.5	69.8	69.0	68.3	67.7	66.8	66.0	65.1	64.2	63.0										
	Stack Gas Temp.—°F.				455	490	530	575	610	650	685	730	770	805	850	895	935										
Grate Area	**Combustion Rate**				**3.19**	**3.71**	**4.26**	**4.80**	**5.36**	**5.94**	**6.55**	**7.12**	**7.74**	**8.35**	**9.02**	**9.69**	**10.44**									863#	55 ft.
13.45 Sq. Ft.	Draft—Ins. of Water				.034	.044	.049	.054	.066	.078	.091	.105	.120	.135	.150	.165	.185									Avail.	High
3-11-S **3-11-W**	**Firing Period—Hours**					**19.3**	**17.0**	**15.1**	**13.4**	**12.2**	**11.1**	**10.2**	**9.4**	**8.7**	**8.0**	**7.5**	**7.0**	**6.5**	**6.1**							1280# Cap.	20x20 Ins.
	Boiler Efficiency—%					72.5	72.0	71.5	70.6	70.0	69.2	68.8	68.0	67.0	66.1	65.3	64.5	63.5	62.6								
	Stack Gas Temp.—°F.					440	485	525	560	600	640	670	715	755	790	830	875	905	950								
Grate Area	**Combustion Rate**					**3.34**	**3.79**	**4.26**	**4.78**	**5.27**	**5.79**	**6.30**	**6.84**	**7.40**	**8.00**	**8.58**	**9.20**	**9.77**	**10.51**							960#	60 ft.
14.95 Sq. Ft.	Draft—Ins. of Water					.036	.044	.054	.064	.074	.084	.098	.110	.124	.137	.150	.165	.180	.195							Avail.	High
3-12-S **3-12-W**	**Firing Period—Hours**						**18.9**	**16.9**	**15.0**	**13.6**	**12.4**	**11.3**	**10.6**	**9.7**	**9.1**	**8.4**	**7.9**	**7.4**	**6.9**	**6.4**	**6.1**					1410# Cap.	20x20 Ins.
	Boiler Efficiency—%						72.5	72.0	71.6	70.9	70.2	69.8	69.0	68.2	67.8	67.0	66.0	65.2	64.4	63.6	62.8						
	Stack Gas Temp.—°F.						465	500	540	575	605	650	680	720	750	785	815	850	880	920	955						
Grate Area	**Combustion Rate**						**3.43**	**3.75**	**4.28**	**4.74**	**5.20**	**5.64**	**6.13**	**6.62**	**7.10**	**7.62**	**8.14**	**8.72**	**9.27**	**10.00**	**10.45**					1058#	65 ft.
16.45 Sq. Ft.	Draft—Ins. of Water						.044	.050	.055	.065	.076	.087	.100	.113	.127	.140	.157	.173	.190	.208	.225					Avail.	High
3-13-S **3-13-W**	**Firing Period—Hours**							**18.6**	**16.7**	**15.2**	**13.8**	**12.8**	**11.8**	**10.9**	**10.2**	**9.4**	**9.0**	**8.3**	**7.9**	**7.4**	**7.0**	**6.6**	**6.3**			1540# Cap.	20x20 Ins.
	Boiler Efficiency—%							72.9	72.2	71.9	71.2	71.0	70.3	69.8	69.1	68.3	67.8	67.0	66.3	65.5	64.6	63.8	63.0				
	Stack Gas Temp.—°F.							480	510	545	570	615	635	670	705	740	775	800	835	865	900	930	970				
Grate Area	**Combustion Rate**							**3.48**	**3.88**	**4.28**	**4.70**	**5.08**	**5.52**	**5.93**	**6.38**	**6.89**	**7.24**	**7.78**	**8.26**	**8.78**	**9.31**	**9.74**	**10.38**			1165#	65 ft.
17.95 Sq. Ft.	Draft—Ins. of Water							.044	.054	.063	.074	.085	.097	.107	.120	.135	.150	.165	.180	.200	.215	.230	.250			Avail.	High
3-14-SS **3-14-WS**	**Firing Period—Hours**								**18.4**	**16.7**	**15.2**	**14.0**	**12.9**	**12.0**	**11.4**	**10.5**	**9.8**	**9.3**	**8.7**	**8.2**	**7.8**	**7.4**	**7.0**	**6.6**	**6.3**	1670# Cap.	20x24 Ins.
	Boiler Efficiency—%								72.8	72.3	71.8	71.3	70.8	70.3	69.8	69.2	68.6	68.0	67.4	66.7	66.0	65.2	64.4	63.6	62.8		
	Stack Gas Temp.—°F.								480	515	540	575	605	635	665	695	725	755	785	815	845	875	905	935	965		
Grate Area	**Combustion Rate**								**3.55**	**3.92**	**4.29**	**4.67**	**5.05**	**5.44**	**5.73**	**6.25**	**6.65**	**7.07**	**7.50**	**7.95**	**8.40**	**8.90**	**9.38**	**9.88**	**10.40**	1272#	65 ft.
19.45 Sq. Ft.	Draft—Ins. of Water								.044	.053	.063	.073	.084	.095	.107	.120	.135	.150	.165	.180	.195	.212	.230	.245	.270	Avail.	High

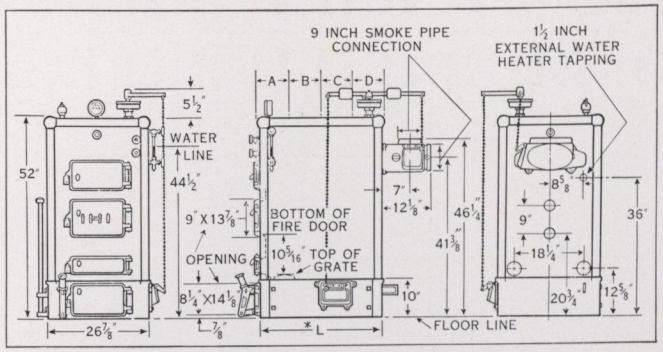
To select boiler required add actual radiator load (in sq. ft.) to piping load (in equivalent sq. ft. of radiation).
This total load is the output in equivalent direct radiation to be used. Select boiler between heavy lines having the desired firing period and combustion rate.
The above tables are based on fuel having 12,500 B.t.u. per pound.
For fuels of other calorific values see page 148—1 for method of determining total load.

No. 4—Crane Sectional Boiler—Performance Data

Number of Boiler	Output in Equivalent Direct Radiation Sq. Ft. / Steam (240 B.t.u.) / Water (150 B.t.u.) / B.t.u. Per Hour (1000's)	1450 / 2320 / 348	1825 / 2920 / 438	2200 / 3520 / 528	2575 / 4120 / 618	2950 / 4720 / 708	3325 / 5320 / 798	3700 / 5920 / 888	4075 / 6520 / 978	4450 / 7120 / 1068	4825 / 7720 / 1158	5200 / 8320 / 1248	5575 / 8920 / 1338	5950 / 9520 / 1428	6325 / 10120 / 1518	6700 / 10720 / 1608	7075 / 11320 / 1698	7450 / 11920 / 1788	7825 / 12520 / 1878	8200 / 13120 / 1968	8575 / 13720 / 2058	8950 / 14320 / 2148	9325 / 14920 / 2238	9700 / 15520 / 2328	10075 / 16120 / 2418	10450 / 16720 / 2508	Fuel Cap. Fuel Avail.	Stack Size and Hght.
4-7-S **4-7-W**	**Firing Period—Hours**	**20.1**	**15.9**	**13.1**	**11.0**	**9.5**	**8.3**	**7.4**	**6.5**	**5.8**	**5.2**	**4.7**																1050# Cap.	16x20 Ins.
	Boiler Efficiency—%	71.0	70.5	70.0	69.0	68.0	67.0	66.3	64.2	62.8	60.6	59.2																
	Stack Gas Temp.—°F	450	510	580	640	705	770	835	900	965	1030	1100																
Grate Area	**Combustion Rate**	**3.04**	**3.85**	**4.68**	**5.55**	**6.46**	**7.39**	**8.30**	**9.45**	**10.55**	**11.85**	**13.07**															790#	50 ft.
12.90 Sq. Ft.	Draft—Ins. of Water	.024	.039	.060	.085	.110	.135	.160	.180	.210	.235	.260															Avail.	High
4-8-S **4-8-W**	**Firing Period—Hours**		**18.7**	**15.4**	**13.0**	**11.2**	**9.8**	**8.7**	**7.8**	**7.0**	**6.4**	**5.8**	**5.3**	**4.8**													1225# Cap.	20x20 Ins.
	Boiler Efficiency—%		71.2	70.5	69.8	69.0	68.0	67.3	66.3	65.2	64.1	63.0	61.4	60.0														
	Stack Gas Temp.—°F		490	540	595	650	700	755	810	865	920	970	1025	1080														
Grate Area	**Combustion Rate**		**3.27**	**3.98**	**4.71**	**5.45**	**6.24**	**7.01**	**7.84**	**8.70**	**9.60**	**10.52**	**11.58**	**12.65**													920#	55 ft.
15.05 Sq. Ft.	Draft—Ins. of Water		.033	.049	.069	.090	.115	.140	.160	.180	.205	.225	.250	.275													Avail.	High
4-9-S **4-9-W**	**Firing Period—Hours**			**17.7**	**15.0**	**13.0**	**11.3**	**10.1**	**9.1**	**8.2**	**7.5**	**6.8**	**6.3**	**5.7**	**5.3**	**4.9**											1400# Cap.	20x20 Ins.
	Boiler Efficiency—%			71.2	70.7	70.0	69.0	68.3	67.5	66.8	65.8	64.9	63.8	62.5	61.2	60.0												
	Stack Gas Temp.—°F			520	565	610	660	700	750	795	840	890	935	980	1025	1070												
Grate Area	**Combustion Rate**			**3.45**	**4.07**	**4.70**	**5.38**	**6.05**	**6.74**	**7.44**	**8.19**	**8.94**	**9.75**	**10.63**	**11.54**	**12.46**											1050#	55 ft.
17.20 Sq. Ft.	Draft—Ins. of Water			.036	.051	.069	.089	.110	.135	.160	.182	.200	.225	.250	.275	.300											Avail.	High
4-10-S **4-10-W**	**Firing Period—Hours**				**17.0**	**14.9**	**13.0**	**11.5**	**10.4**	**9.4**	**8.5**	**7.8**	**7.2**	**6.6**	**6.1**	**5.7**	**5.3**	**4.9**									1575# Cap.	20x20 Ins.
	Boiler Efficiency—%				71.5	71.3	70.2	69.5	69.0	68.0	67.0	66.2	65.3	64.2	63.2	62.1	61.0	60.0										
	Stack Gas Temp.—°F				540	580	625	660	700	735	785	820	855	900	940	975	1025	1060										
Grate Area	**Combustion Rate**				**3.57**	**4.10**	**4.70**	**5.28**	**5.86**	**6.49**	**7.15**	**7.79**	**8.47**	**9.20**	**9.93**	**10.70**	**11.50**	**12.32**									1180#	60 ft.
19.35 Sq. Ft.	Draft—Ins. of Water				.040	.059	.079	.100	.120	.138	.158	.180	.200	.222	.245	.265	.290	.315									Avail.	High
4-11-S **4-11-W**	**Firing Period—Hours**					**16.5**	**14.6**	**13.0**	**11.7**	**10.6**	**9.6**	**8.8**	**8.1**	**7.5**	**7.0**	**6.5**	**6.1**	**5.8**	**5.4**	**5.0**							1750# Cap.	20x24 Ins.
	Boiler Efficiency—%					71.5	71.0	70.3	69.8	69.0	68.0	67.2	66.5	65.8	65.0	64.2	63.5	62.8	62.0	61.1								
	Stack Gas Temp.—°F					550	590	625	655	695	730	765	800	840	875	910	940	980	1015	1050								
Grate Area	**Combustion Rate**					**3.68**	**4.18**	**4.70**	**5.21**	**5.76**	**6.34**	**6.91**	**7.49**	**8.07**	**8.69**	**9.32**	**9.95**	**10.60**	**11.27**	**11.98**							1310#	65 ft.
21.50 Sq. Ft.	Draft—Ins. of Water					.052	.069	.088	.105	.113	.142	.160	.180	.198	.218	.238	.260	.280	.300	.320							Avail.	High
4-12-S **4-12-W**	**Firing Period—Hours**						**16.1**	**14.4**	**13.0**	**11.8**	**10.7**	**9.9**	**9.1**	**8.4**	**7.9**	**7.4**	**6.9**	**6.5**	**6.1**	**5.7**	**5.4**	**5.2**					1925# Cap.	20x24 Ins.
	Boiler Efficiency—%						71.5	71.0	70.5	70.0	69.0	68.6	67.9	67.0	66.5	65.8	65.0	64.2	63.4	62.6	61.9	61.5						
	Stack Gas Temp.—°F						575	605	635	670	700	730	765	800	825	860	890	920	955	985	1015	1040						
Grate Area	**Combustion Rate**						**3.78**	**4.23**	**4.70**	**5.16**	**5.68**	**6.16**	**6.67**	**7.21**	**7.72**	**8.27**	**8.84**	**9.42**	**10.02**	**10.64**	**11.25**	**11.82**					1440#	70 ft.
23.64 Sq. Ft.	Draft—Ins. of Water						.057	.072	.090	.108	.127	.145	.160	.180	.200	.218	.235	.255	.280	.300	.320	.340					Avail.	High
4-13-S **4-13-W**	**Firing Period—Hours**						**17.8**	**15.9**	**14.3**	**13.0**	**12.0**	**11.0**	**10.1**	**9.4**	**8.8**	**8.2**	**7.7**	**7.2**	**6.8**	**6.4**	**6.1**	**5.7**	**5.5**	**5.2**			2100# Cap.	20x24 Ins.
	Boiler Efficiency—%						72.2	72.0	71.5	71.0	70.5	69.9	69.0	68.3	67.9	67.0	66.5	65.8	65.1	64.3	63.6	62.9	62.2	61.5				
	Stack Gas Temp.—°F						540	590	615	640	670	700	730	755	785	810	840	865	895	920	950	975	1005	1030				
Grate Area	**Combustion Rate**						**3.43**	**3.82**	**4.24**	**4.66**	**5.10**	**5.54**	**6.01**	**6.48**	**6.93**	**7.44**	**7.92**	**8.43**	**8.94**	**9.50**	**10.03**	**10.58**	**11.15**	**11.73**			1570#	75 ft.
25.80 Sq. Ft.	Draft—Ins. of Water						.045	.057	.070	.085	.102	.120	.135	.153	.170	.190	.208	.228	.250	.270	.290	.315	.340	.360			Avail.	High
4-14-SS **4-14-WS**	**Firing Period—Hours**							**17.4**	**15.7**	**14.4**	**13.0**	**12.0**	**11.1**	**10.3**	**9.6**	**9.0**	**8.4**	**8.0**	**7.5**	**7.0**	**6.7**	**6.3**	**6.0**	**5.8**	**5.4**	**5.2**	2275# Cap.	20x24 Ins.
	Boiler Efficiency—%							72.5	72.0	71.5	71.0	70.5	70.0	69.3	68.6	67.9	67.2	66.5	65.8	65.1	64.4	63.7	63.0	62.3	61.6	61.0		
	Stack Gas Temp.—°F							570	590	620	640	670	690	720	740	770	790	820	840	870	890	915	940	965	990	1015		
Grate Area	**Combustion Rate**							**3.50**	**3.88**	**4.22**	**4.67**	**5.07**	**5.47**	**5.90**	**6.33**	**6.78**	**7.23**	**7.69**	**8.16**	**8.65**	**9.14**	**9.66**	**10.16**	**10.70**	**11.20**	**11.75**	1700#	75 ft.
27.94 Sq. Ft.	Draft—Ins. of Water							.044	.057	.069	.082	.100	.115	.130	.150	.165	.180	.200	.220	.245	.260	.280	.310	.340	.360	.380	Avail.	High

To select boiler required add actual radiator load (in sq. ft.) to piping load (in equivalent sq. ft. of radiation).
This total load is the output in equivalent direct radiation to be used. Select boiler between heavy lines having the desired firing period and combustion rate.
The above tables are based on fuel having 12,500 B.t.u. per pound.
For fuels of other calorific values see page 148—1 for method of determining total load.

General Dimensions Series No. 1 Crane Sectional Boilers

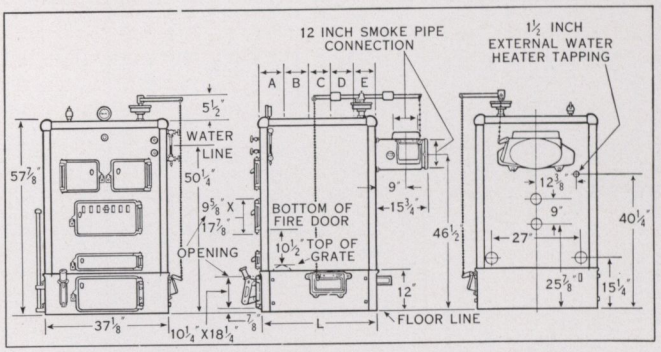


General Dimensions for No. 1 Boiler

No. of Boiler		Outlets No. & Size	Inlets No. & Size	Size of Pop Valve	Dimensions, Inches, For Locating Flow Tappings					Assemblage of Sections
Steam	Water				A	B	C	D	L	
1-4-S	**1-4-W**	1-3	2-3	¾	11 11/16			4 5/16	16	F-RT
1-5-S	**1-5-W**	1-3	2-3	¾	15 11/16			4 5/16	20	FS-M-RT
1-6-S	**1-6-W**	2-3	2-3	¾	12	7 11/16		4 5/16	24	F-MT-RT
1-7-S	**1-7-W**	2-3	2-3	¾	8	15 11/16		4 5/16	28	FS-MT-M-kT
1-8-S	**1-8-W**	2-3	2-3	1	12	15 11/16		4 5/16	32	F-MT-M-RT
1-9-S	**1-9-W**	2-3	2-3	1	16	15 11/16		4 5/16	36	FS-M-MT-M-kT
1-10-S	**1-10-W**	3-3	2-3	1¼	12	16	7 11/16	4 5/16	40	F-MT-M-MT-RT

FS—4" Front Single Section
F—8" Front Section
M—Intermediate Section
MT—Intermediate Section—Tapped
RT—Rear Section—Tapped
In case it is desired to add sections to a boiler already in use, Crane Extension Base Panels eliminate the necessity of discarding the old base and ordering an entirely new one.

General Dimensions Series No. 2 Crane Sectional Boilers

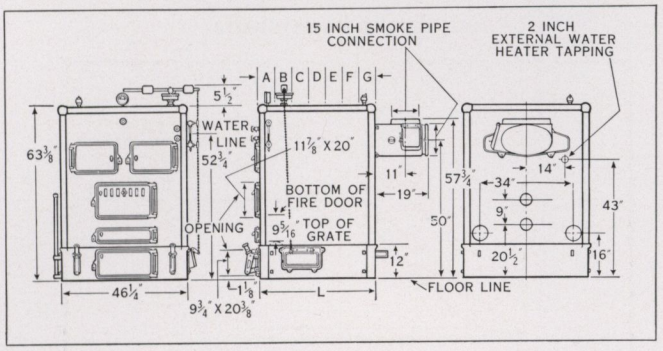


General Dimensions for No. 2 Boiler

No. of Boiler		Outlets No. & Size	Inlets No. & Size	Size of Pop Val.	Dimensions, Inches, For Locating Flow Tappings						Assemblage of Sections
Steam	Water				A	B	C	D	E	L	
2-5-S	**2-5-W**	2-4	2-4	1	10	10			5	25	FS-MT-RT
2-6-S	**2-6-W**	2-4	2-4	1¼	15	10			5	30	F-MT-RT
2-7-S	**2-7-W**	2-4	2-4	1¼	10	20			5	35	FS-MT-M-RT
2-8-S	**2-8-W**	2-4	2-4	1¼	15	20			5	40	F-MT-M-RT
2-9-S	**2-9-W**	2-4	2-4	1½	10	30			5	45	FS-MT-M-M-RT
2-10-S	**2-10-W**	2-4	2-4	1½	15	30			5	50	F-MT-M-M-RT
2-11-S	**2-11-W**	3-4	2-4	1½	10	20	20		5	55	FS-MT-M-MT-M-RT
2-12-SS	**2-12-WS**	3-4	2-4	2	15	30	10		5	60	F-MT-M-M-MT-RT
2-13-SS	**2-13-WS**	4-4	2-4	2	10	20	20	10	5	65	FS-MT-M-MT-M-MT-RT

FS—5" Front Single Section.
F—10" Front Section.
M—Intermediate Section.
MT—Intermediate Section—Tapped.
RT—Rear Section—Tapped.
In case it is desired to add sections to a boiler already in use, Crane Extension Base Panels eliminate the necessity of discarding the old base and ordering an entirely new one.

General Dimensions Series No. 3 Crane Sectional Boilers



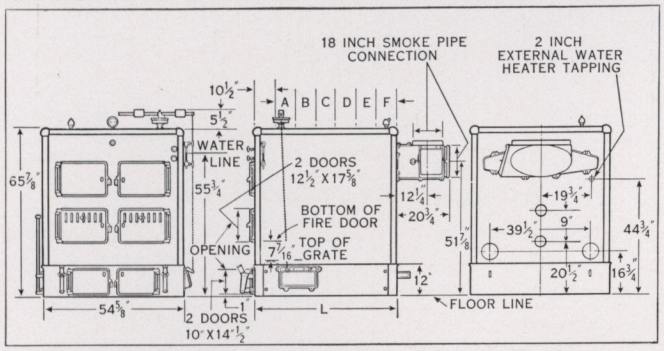
General Dimensions for No. 3 Boiler

No. of Boiler		Outlets No. & Size	Inlets No. & Size	Size of Pop Val.	Dimensions, Inches, For Locating Flow Tappings								Assemblage of Sections
Steam	Water				A	B	C	D	E	F	G	L	
3-6-S	**3-6-W**	2–4	2–5	1½	9	18					9	36	F-FMT-M-M-RMT-R
3-7-S	**3-7-W**	3–4	2–5	1½	9	12	12				9	42	F-FMT-M-MT-M-RMT-R
3-8-S	**3-8-W**	3–4	2–5	2	9	18	12				9	48	F-FMT-M-M-MT-RM-RMT-R
3-9-S	**3-9-W**	4–4	2–5	2	9	12	12	12			9	54	F-FMT-M-MT-M-MT-RM-RMT-R
3-10-S	**3-10-W**	4–4	2–5	2	9	12	12	12			15	60	F-FMT-M-MT-M-MT-M-RMT-RM-R
3-11-S	**3-11-W**	4–4	2–5	2½	9	12	18	18			9	66	F-FMT-M-MT-M-M-MT-M-RM-RMT-R
3-12-S	**3-12-W**	5–4	2–5	2½	9	18	12	12	12		9	72	F-FMT-M-M-MT-M-MT-M-RMT-RM-RMT-R
3-13-S	**3-13-W**	5–4	2–5	2½	9	18	18	12	12		9	78	F-FMT-M-M-MT-M-M-MT-M-RMT-RM-RMT-R
3-14-SS	**3-14-WS**	6–4	2–5	2½	9	12	12	18	12	12	9	84	F-FMT-M-MT-M-MT-M-M-MT-M-RMT-RM-RMT-R

F—Front Section
MT—Intermediate Section--Tapped
R—Rear Section
FMT—Front Intermediate Section—Tapped
RM—Rear Intermediate Section
M—Intermediate Section
RMT—Rear Intermediate Section—Tapped

In case it is desired to add sections to a boiler already in use, Crane Extension Base Panels eliminate the necessity of discarding the old base and ordering an entirely new one.

General Dimensions Series No. 4 Crane Sectional Boilers



General Dimensions for No. 4 Boiler

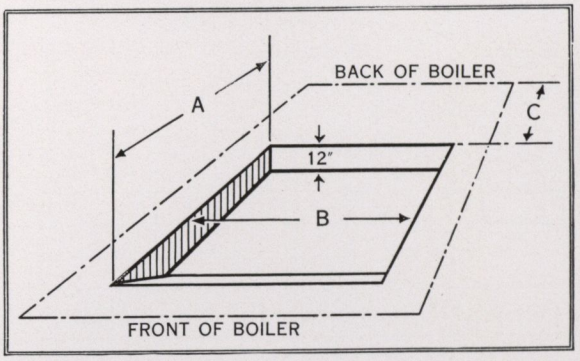
No. of Boiler		Outlets No. & Size	Inlets No. & Size	Pop Valve No. & Size	Dimensions, Inches, For Locating Flow Tappings							Assemblage of Sections
Steam	Water				A	B	C	D	E	F	L	
4-7-S	**4-7-W**	3–4	2–6	1–2	14	14				10½	49	F-FMT-M-MT-RM-RMT-R
4-8-S	**4-8-W**	3–4	2–6	1–2½	14	14				17½	56	F-FMT-M-MT-M-RMT-RM-R
4-9-S	**4-9-W**	4–4	2–6	1–2½	14	14	14			10½	63	F-FMT-M-MT-M-RMT-RM-RMT-R
4-10-S	**4-10-W**	4–4	2–6	1–3	14	14	14			17½	70	F-FMT-M-MT-M-MT-RM-RMT-RM-R
4-11-S	**4-11-W**	5–4	2–6	1–3	14	14	14	14		10½	77	F-FMT-M-MT-M-MT-M-RMT-RM-RMT-R
4-12-S	**4-12-W**	5–4	2–6	1–3	14	14	14	14		17½	84	F-FMT-M-MT-M-MT-M-MT-RM-RMT-RM-R
4-13-S	**4-13-W**	6–4	2–6	2–2½	14	14	14	14	14	10½	91	F-FMT-M-MT-M-MT-M-MT-M-RMT-RM-RMT-RO
4-14-SS	**4-14-WS**	6–4	2–6	2–2½	14	14	14	14	14	17½	98	F-FMT-M-MT-M-MT-M-MT-M-MT-RM-RMT-RM-RO

F—Front Section
M—Intermediate Section
RM—Rear Intermediate Section
R—Rear Section
FMT—Front Intermediate Section—Tapped
MT—Intermediate Section—Tapped
RMT—Rear Intermediate Section—Tapped
RO—Rear Section (13 and 14 Sections only)

In case it is desired to add sections to a boiler already in use, Crane Extension Base Panels eliminate the necessity of discarding the old base and ordering an entirely new one.

Crane Sectional Boiler

Ash Pit Dimensions



No. 2 Sectional Boiler

No. of Sections	Dimensions in Inches			
	Depth	A	B	C
6	12	22	29	4
7	12	27	29	4
8	12	32	29	4
9	12	37	29	4
10	12	42	29	4
11	12	47	29	4
12	12	52	29	4
13	12	57	29	4
14	12	62	29	4

No. 3 Sectional Boiler

No. of Sections	Dimensions in Inches			
	Depth	A	B	C
6	12	28	39	4
7	12	34	39	4
8	12	40	39	4
9	12	46	39	4
10	12	52	39	4
11	12	58	39	4
12	12	64	39	4
13	12	70	39	4
14	12	76	39	4
15	12	82	39	4

No. 4 Sectional Boiler

No. of Sections	Dimensions in Inches			
	Depth	A	B	C
7	12	39	47	5
8	12	46	47	5
9	12	53	47	5
10	12	60	47	5
11	12	67	47	5
12	12	74	47	5
13	12	81	47	5
14	12	88	47	5
15	12	95	47	5

Arrangement of Grate Bars

Crane No. 1 Sectional Boiler

Boiler Number	Grates	Boiler Number	Grates
1-4-S or W	2	**1-8-S or W**	6
1-5-S or W	3	**1-9-S or W**	7
1-6-S or W	4	**1-10-S or W**	8
1-7-S or W	5		

Crane No. 2 Sectional Boiler

Boiler Number	Grates	Boiler Number	Grates
2-5-S or W	3	**2-9-S or W**	7
2-6-S or W	4	**2-10-S or W**	8
2-7-S or W	5	**2-11-S or W**	9
2-8-S or W	6	**2-12-SS or WS**	10
		2-13-SS or WS	11

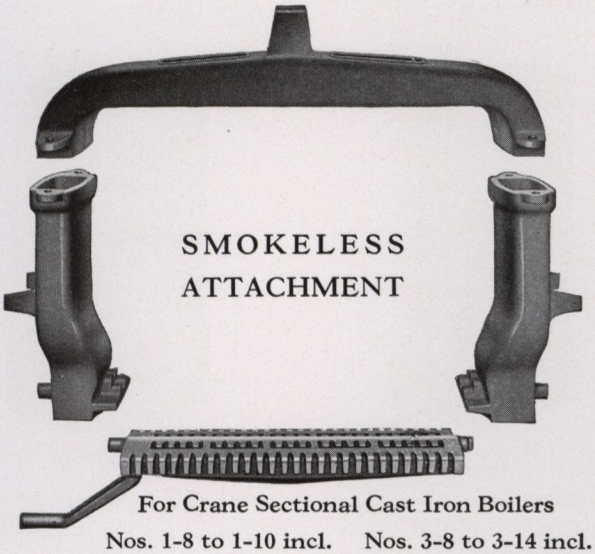
Crane No. 3 Sectional Boiler

Boiler Number	Grates		Boiler Number	Grates	
	Left Hand	Right Hand		Left Hand	Right Hand
3-6-S or W	2	2	**3-10-S or W**	4	4
3-7-S or W	2	3	**3-11-S or W**	4	5
3-8-S or W	3	3	**3-12-S or W**	5	5
3-9-S or W	3	4	**3-13-S or W**	5	6
			3-14-SS or WS	6	6

Crane No. 4 Sectional Boiler

Boiler Number	Grates		Boiler Number	Grates	
	Left Hand	Right Hand		Left Hand	Right Hand
4-7-S or W	2	3	**4-11-S or W**	4	5
4-8-S or W	3	3	**4-12-S or W**	5	5
4-9-S or W	3	4	**4-13-S or W**	5	6
4-10-S or W	4	4	**4-14-SS or WS**	6	6

Crane Smokeless Boilers



For Crane Sectional Cast Iron Boilers

Nos. 1-8 to 1-10 incl. Nos. 3-8 to 3-14 incl.
Nos. 2-8 to 2-13 incl. Nos. 4-9 to 4-14 incl.

Smokeless Combustion — The black, heavily smoke-laden gases distilled from soft coals, instead of going to waste up the chimney, are thoroughly burned by the scientific introduction of preheated secondary air over the fuel bed. As a result, the clean operation of the boiler is well within the regulations of the most rigid municipal ordinance.

Performance is Economical—Converting the B.t.u. content of the volatile matter into actual heat raises the combustion efficiency and lowers fuel bills.

Automatically Controlled—No additional dampers are necessary; the draft and check draft dampers, governed by the regulator, are the only controls required.

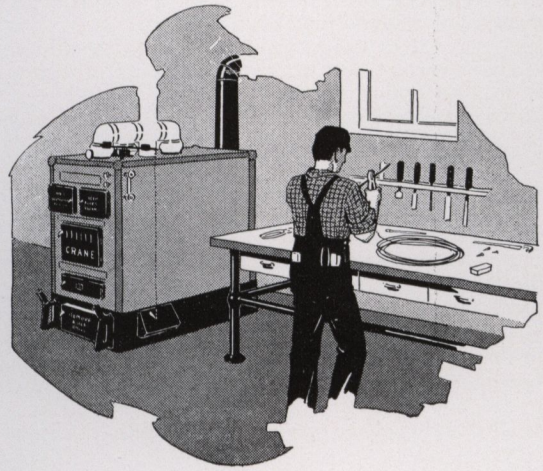
Ratings—The regular ratings on pages 148—2 to 150—1 inclusive, apply to the Smokeless Boiler.

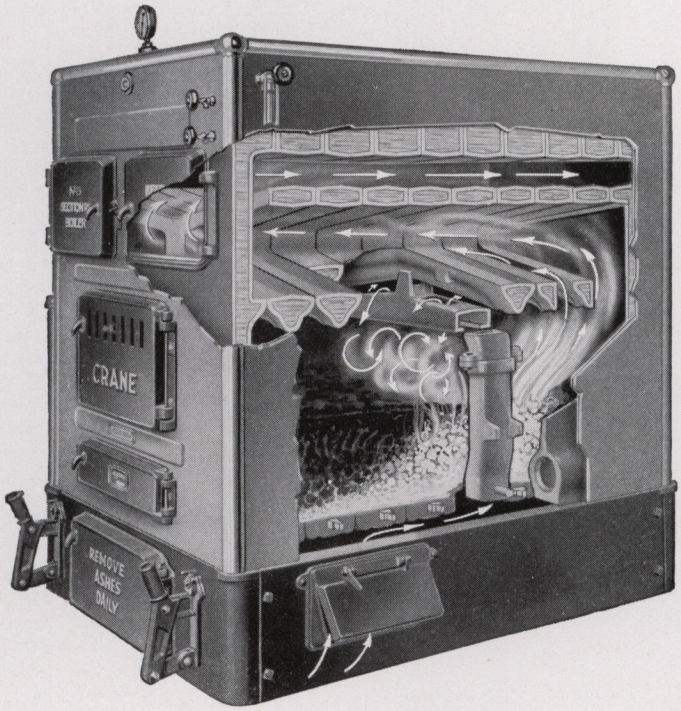
Method of Ordering—In ordering, add the letter "S" after the boiler number, thus—2-8-SS or 2-8-WS.

To the 27 distinct points of merit in the sectional boilers is now added another—the smokeless attachment. This feature consists of but two risers, a distributing arch, or oxidizer, of heat and corrosion resisting alloy, and a special grate.

Air from the ashpit is preheated in passing through the risers to the distributing arch where it combines with the gases of combustion over the fuel bed. As the mixture passes over the red hot coals, it ignites and burns at a high temperature, completing combustion and extracting additional heat from the available fuel which might otherwise escape through the chimney.

In the development of this fuel-saving smoke eliminator, our engineers have made possible extraordinary simplicity of installation and operation. *Dismantling neither the boiler nor the piping is necessary when adding the device to a boiler already in service.* Only four bolts are required to hold the attachment in place. The Crane Smokeless Attachment assures clean and efficient performance.

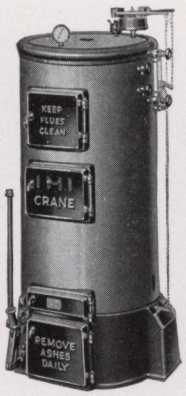




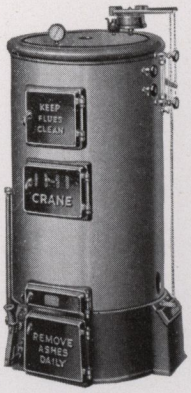
(Patented and patents pending)

Round Boilers

Crane Round Boilers for hot water, steam, vacuum and vapor heating, to burn all coals, coke, oil or gas; in sizes to fit the requirements of residences.



18″ Diameter Grate



20″ Diameter Grate



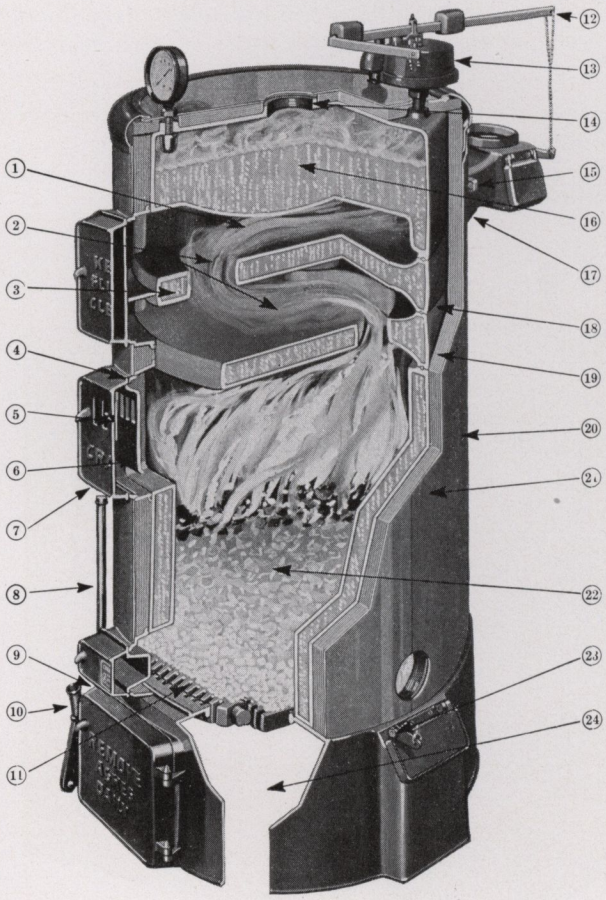
22″ Diameter Grate



24″ Diameter Grate

These four illustrations show the comparative size of Crane Round Boilers. Handsomely jacketed in two-tone green enamel, with black heat-resisting paint for exposed parts. Interior design improved for better heating efficiency.

24 Points of Merit in the Crane Round Boiler



1 Depression in top of gas flue at dome maintains velocity of gas as it goes to the smoke hood. This same depression gives greater water depth at dome.

2 Arrangement of gas flues gives back and forth gas travel and consequently longer fire travel.

3 Water passages arranged for back and forth water travel, increasing velocity of water and affording maximum contact with heating surfaces.

4 All doors and dampers have accurately ground flat surfaces which permit them to shut tight, without air or dust leaks. Corresponding parts are interchangeable.

5 Fire door has secondary air distributor.

6 All boiler doors have baffle linings.

7 Heat resisting black paint is used for all exposed parts.

8 Steel shaker handle is unbreakable.

9 Socket at side holds the shaker handle to keep it from getting lost.

10 Grate shaker bar locking device locks with a tap of the foot. It has three positions, one for shaking, one for dumping, and one for locking in place.

11 Sloping grates make shaking and dumping easier.

12 Regulator controlled damper arms have a well balanced leverage to give easy, non-sticking operation.

13 Try-cocks, pop valves, steam gauges, combination altitude gauges and thermometers, and regulator parts are of highest quality and are furnished as regular equipment.

14 Threaded openings maintain the Crane standard of precision which makes for easy installation.

15 Smoke damper with positive indicator on two-way smoke hood has a locking device which holds it in place when adjusted.

16 Extra large dome provides ample water capacity for steam generation. (Applies to steam boilers only.)

17 Smoke hood is at back instead of top, permitting installation with less headroom.

18 Push nipple openings are uniformly accurate.

19 Insulation under jacket is improved asbestocel. Will not sag or push down.

20 Two-tone green jacket gives the Crane boiler the appeal of beauty.

21 Marring of jacket is eliminated because jacket is put on after boiler is installed and ready to operate. No unsightly cracks are left in jacket joints.

22 Combustion chamber is extra deep, giving large fuel capacity.

23 Brass pivots at bearings minimize friction and insure sensitive response to control.

24 Ash pit is of generous size.

Designed For Better Heating Efficiency

Crane Round Boilers embody every point that pleases customers: heating, dependability and fuel economy, easy tending, beauty

EXACTLY as was the case in the development of the Crane Sectional Boiler, every detail of Round Boilers was studied and every possible point improved.

Back and forth water travel and **staggered gas travel** are two major points of improvement in interior design to give better heating efficiency and consequent fuel saving.

Long fast water travel scrubs away insulating films

Flue passages are so arranged that all the water, coming to the boiler and rising up the sides of the combustion chamber must turn and go across the top of the combustion chamber and then back and forth between each gas flue. Longer, faster water travel is set up, scrubbing away insulation film. No water remains stagnant; all has maximum contact with the heating surfaces.

Burning gases also, instead of rising straight up, are deflected and must travel back and forth, affording a fire travel of maximum length. At the dome, the last gas flue has its top depressed, forming a uniform passageway for gases, thus maintaining their velocity as they go to the smoke-hood. Also this depression gives greater water depth at the dome. For steam boilers, this dome is extra large, having ample capacity for proper generation and storage of steam.

Among other improvements worked out especially for the Round Boiler are the generous sized ash pit, extra deep combustion chamber with large fuel capacity, sloping grates that make it easier to shake away ashes, smoke hood at the back for readier installation in low basements. The hood can be connected to horizontal or vertical pipe.

Handsome, easy to tend, easy to install

Not only does the Crane Round Boiler embody every possible improvement for heating efficiency but also every modern idea for beauty and easy tending.

It fully meets today's demand for boilers handsome in appearance, to fit into basements that are used as dens or playrooms. In its two-tone green enamel jacket, with black heat-resisting paint for all exposed parts, and bronze trimmings, no better looking boiler has ever been offered. Appearance is enhanced by the precision and fine craftsmanship of every part. No unsightly cracks where the jacket does not quite fit. And the jacket goes on after the boiler has been installed and tested, so that no marring is ever necessary.

Numerous improvements to make tending easy, such as the socket at the side to hold the shaker handle and keep it from getting lost and the grate locking device that operates with a tap of the foot, have been incorporated.

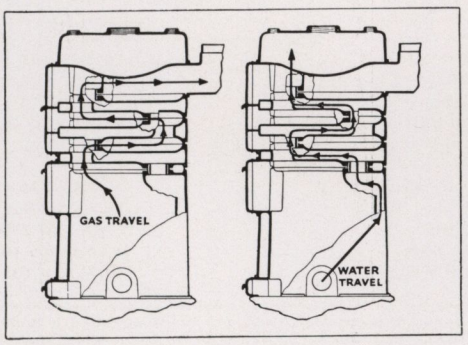
Installation costs are kept low and the heating contractor's work is lightened by Crane standard of precision found in all parts. Threaded openings are accurately aligned and threads evenly cut. Push nipple openings are uniformly accurate.

Easy to sell because worth buying

Heating contractors have found the Crane Round Boiler easy to sell because it embodies every point that pleases customers . . . heating dependability and fuel economy, easy tending, beauty. To learn all the points that will help you in making sales, go over the list of 24 points of merit on page 152—2. These points will appear even more clearly when you see the boiler and go over it.

The design is in strict accordance with A. S. M. E. and A. S. H. & V. E. standards. Parts are packed for shipment to be opened in rotation, for easy assembly.

You can recommend it in full confidence that it will please your customers and help build your business.



This diagram visualizes the staggered gas travel and back and forth water travel that increases efficiency in the Crane Round Boiler

18-Inch Crane Round Boiler—Performance Data

Number of Boiler	Output in Equivalent Direct Radiation Sq. Ft.																				Fuel Cap. Fuel Avail.	Stack Size and Hght.
	Steam (240 B.t.u.)	*220*	*240*	*260*	*280*	*300*	*320*	*340*	*360*	*380*	*400*	*420*	*440*	*460*	*480*	*500*	*520*	*560*	*580*	*600*		
	Water (150 B.t.u.)	**352**	**384**	**416**	**448**	**480**	**512**	**544**	**576**	**608**	**640**	**672**	**704**	**736**	**768**	**800**	**832**	**896**	**928**	**960**		
	B.t.u. Per Hour (100's)	528	576	624	672	720	768	816	864	912	960	1008	1056	1104	1152	1200	1248	1344	1392	1440		
S-184	**Firing Period—Hours**	**25.2**	**22.8**	**21.0**	**19.5**	**18.0**	**16.8**	**15.7**	**14.8**	**14.0**	**13.2**	**12.5**	**11.9**	**11.2**	**10.8**	**10.4**	**10.0**				195# Cap.	8x8 Ins.
W-184	Boiler Efficiency—%	73.4	72.6	72.3	71.9	71.5	71.1	70.8	70.5	70.2	69.9	69.6	69.3	69.0	68.8	68.6	68.4					
	Stack Gas Temp.—°F	370	400	430	450	480	510	535	560	590	615	640	670	695	720	750	775					
Grate Area	**Combustion Rate**	**3.25**	**3.58**	**3.90**	**4.22**	**4.55**	**4.88**	**5.20**	**5.53**	**5.86**	**6.20**	**6.55**	**6.89**	**7.29**	**7.56**	**7.90**	**8.25**				145# Avail.	30 ft. High
1.77 Sq. Ft.	Draft—Ins. of Water	.027	.031	.036	.041	.046	.051	.056	.062	.068	.073	.080	.086	.094	.100	.105	.115					
S-185	**Firing Period—Hours**	**25.6**	**23.4**	**21.6**	**19.9**	**18.4**	**17.2**	**16.2**	**15.3**	**14.4**	**13.6**	**12.9**	**12.3**	**11.7**	**11.2**	**10.7**	**10.3**	**9.5**			195# Cap.	8x8 Ins.
W-185	Boiler Efficiency—%	74.5	74.3	74.1	73.6	73.1	73.0	72.9	72.6	72.2	71.9	71.7	71.5	71.3	71.1	70.9	70.8	70.6				
	Stack Gas Temp.—°F	305	320	340	360	375	395	410	430	445	465	480	500	515	530	550	570	600				
Grate Area	**Combustion Rate**	**3.20**	**3.50**	**3.80**	**4.12**	**4.45**	**4.75**	**5.05**	**5.37**	**5.70**	**6.03**	**6.35**	**6.67**	**7.00**	**7.32**	**7.65**	**7.97**	**8.60**			145# Avail.	35 ft. High
1.77 Sq. Ft.	Draft—Ins. of Water	.027	.030	.035	.039	.044	.049	.054	.059	.065	.070	.076	.082	.088	.095	.100	.110	.120				
S-186	**Firing Period—Hours**		**23.8**	**21.8**	**20.3**	**18.8**	**17.6**	**16.6**	**15.6**	**14.8**	**14.0**	**13.3**	**12.7**	**12.1**	**11.6**	**11.1**	**10.7**	**9.8**	**9.4**	**9.1**	195# Cap.	8x8 Ins.
W-186	Boiler Efficiency— %		75.4	75.2	75.0	74.8	74.7	74.6	74.5	74.3	74.2	74.0	73.8	73.6	73.4	73.2	73.1	72.7	72.5	72.3		
	Stack Gas Temp.—°F		290	300	315	330	345	360	375	390	400	420	430	445	460	475	490	520	535	550		
Grate Area	**Combustion Rate**		**3.45**	**3.75**	**4.04**	**4.35**	**4.65**	**4.94**	**5.23**	**5.54**	**5.85**	**6.16**	**6.46**	**6.78**	**7.09**	**7.40**	**7.64**	**8.35**	**8.68**	**9.00**	145# Avail.	35 ft. High
1.77 Sq. Ft.	Draft—Ins. of Water		.030	.034	.038	.043	.047	.052	.057	.062	.068	.072	.078	.084	.090	.097	.100	.105	.120	.130		

20-Inch Crane Round Boiler—Performance Data

Number of Boiler	Output in Equivalent Direct Radiation Sq. Ft.																				Fuel Cap. Fuel Avail.	Stack Size and Hght.
	Steam (240 B.t.u.)	*280*	*300*	*320*	*340*	*360*	*380*	*400*	*420*	*440*	*460*	*480*	*500*	*520*	*560*	*580*	*600*	*640*	*660*	*680*		
	Water (150 B.t.u.)	**448**	**480**	**512**	**544**	**576**	**608**	**640**	**672**	**704**	**736**	**768**	**800**	**832**	**896**	**928**	**960**	**1024**	**1056**	**1088**		
	B.t.u. Per Hour (100's)	672	720	768	816	864	912	960	1008	1056	1104	1152	1200	1248	1344	1392	1440	1536	1584	1632		
S-204	**Firing Period—Hours**	**24.3**	**22.6**	**21.2**	**19.9**	**18.8**	**17.7**	**16.7**	**15.8**	**15.0**	**14.3**	**13.7**	**13.1**	**12.5**	**11.6**	**11.1**	**10.7**	**10.0**	**9.7**		240# Cap.	8x8 Ins.
W-204	Boiler Efficiency—%	72.5	72.3	72.2	72.1	72.0	71.5	71.2	71.0	70.5	70.3	70.1	69.9	69.4	69.2	68.8	68.4	68.1	68.0			
	Stack Gas Temp.—°F	425	450	480	500	530	550	575	600	625	650	675	700	730	775	805	830	880	900			
Grate Area	**Combustion Rate**	**3.40**	**3.65**	**3.90**	**4.15**	**4.40**	**4.67**	**4.95**	**5.21**	**5.50**	**5.75**	**6.03**	**6.30**	**6.60**	**7.12**	**7.42**	**7.73**	**8.28**	**8.55**		180# Avail.	30 ft. High
2.18 Sq. Ft.	Draft—Ins. of Water	.030	.034	.037	.042	.047	.053	.060	.064	.068	.072	.077	.082	.087	.098	.105	.110	.125	.135			
S-205	**Firing Period—Hours**	**24.7**	**23.1**	**21.5**	**20.4**	**19.2**	**17.7**	**17.0**	**16.2**	**15.4**	**14.7**	**14.1**	**13.5**	**12.9**	**11.9**	**11.5**	**11.0**	**10.3**	**10.0**	**9.7**	240# Cap.	8x8 Ins.
W-205	Boiler Efficiency—%	74.1	74.0	73.9	73.8	73.6	73.1	72.8	72.5	72.4	72.3	72.0	71.8	71.6	71.2	70.9	70.8	70.5	70.4	70.3		
	Stack Gas Temp.—°F	340	355	370	385	400	415	430	450	465	480	495	510	530	560	575	590	625	640	655		
Grate Area	**Combustion Rate**	**3.35**	**3.57**	**3.83**	**4.05**	**4.30**	**4.57**	**4.84**	**5.10**	**5.34**	**5.60**	**5.85**	**6.13**	**6.38**	**6.92**	**7.20**	**7.46**	**8.00**	**8.25**	**8.52**	180# Avail.	35 ft. High
2.18 Sq. Ft.	Draft—Ins. of Water	.028	.031	.035	.038	.041	.045	.049	.053	.057	.060	.064	.069	.073	.082	.087	.090	.100	.105	.110		
S-206	**Firing Period—Hours**		**23.6**	**22.3**	**20.6**	**19.5**	**18.0**	**17.5**	**16.6**	**15.8**	**15.1**	**14.5**	**13.9**	**13.3**	**12.3**	**11.8**	**11.4**	**10.7**	**10.3**	**10.0**	240# Cap.	8x8 Ins.
W-206	Boiler Efficiency—%		75.2	75.0	74.8	74.7	74.6	74.5	74.4	74.3	74.2	74.1	74.0	73.9	73.5	73.0	72.9	72.7	72.6	72.5		
	Stack Gas Temp.—°F		305	320	330	345	355	370	380	395	410	420	430	445	470	485	495	520	535	550		
Grate Area	**Combustion Rate**		**3.50**	**3.70**	**4.00**	**4.24**	**4.48**	**4.72**	**4.97**	**5.22**	**5.45**	**5.70**	**5.95**	**6.20**	**6.70**	**7.00**	**7.24**	**7.75**	**8.00**	**8.25**	180# Avail.	35 ft. High
2.18 Sq. Ft.	Draft—Ins. of Water		.027	.030	.033	.036	.039	.042	.045	.049	.052	.056	.060	.063	.071	.075	.080	.088	.092	.096		

22-Inch Crane Round Boiler—Performance Data

Number of Boiler	Output in Equivalent Direct Radiation Sq. Ft.																				Fuel Cap. Fuel Avail.	Stack Size and Hght.
	Steam (240 B.t.u.)	*220*	*270*	*320*	*370*	*420*	*470*	*520*	*570*	*620*	*670*	*720*	*770*	*820*	*870*	*920*	*970*					
	Water (150 B.t.u.)	**352**	**432**	**512**	**592**	**672**	**752**	**832**	**912**	**992**	**1072**	**1152**	**1232**	**1312**	**1392**	**1472**	**1552**					
	B.t.u. Per Hour (100's)	528	648	768	888	1008	1128	1248	1368	1488	1608	1728	1848	1968	2088	2208	2328					
S-224	**Firing Period—Hours**	**37.4**	**30.7**	**25.9**	**22.3**	**19.3**	**17.1**	**15.4**	**13.8**	**12.7**	**11.6**	**10.7**	**10.0**								290# Cap.	8x8 Ins.
W-224	Boiler Efficiency—%	72.4	72.4	72.4	72.0	70.8	70.3	69.8	68.8	68.6	67.6	67.4	67.2									
	Stack Gas Temp.—°F	330	390	450	505	560	620	675	730	785	840	900	950									
Grate Area	**Combustion Rate**	**2.20**	**2.70**	**3.20**	**3.72**	**4.30**	**4.85**	**5.40**	**6.00**	**6.55**	**7.18**	**7.75**	**8.30**								220# Avail.	35 ft. High
2.65 Sq. Ft.	Draft—Ins. of Water	.017	.022	.027	.032	.037	.044	.053	.063	.075	.087	.100	.115									
S-225	**Firing Period—Hours**		**31.3**	**26.3**	**22.7**	**19.8**	**17.6**	**15.8**	**14.3**	**13.1**	**11.9**	**11.0**	**10.4**	**9.7**	**9.1**						290# Cap.	8x12 Ins.
W-225	Boiler Efficiency—%		73.8	73.6	73.5	72.4	72.2	71.8	71.2	70.8	70.0	69.6	69.5	69.3	69.2							
	Stack Gas Temp.—°F		310	340	380	415	450	490	525	560	600	635	675	710	750							
Grate Area	**Combustion Rate**		**2.65**	**3.15**	**3.65**	**4.20**	**4.72**	**5.25**	**5.80**	**6.35**	**6.95**	**7.50**	**8.02**	**8.60**	**9.10**						220# Avail.	35 ft. High
2.65 Sq. Ft.	Draft—Ins. of Water		.020	.025	.031	.037	.043	.050	.058	.066	.074	.083	.093	.105	.120							
S-226	**Firing Period—Hours**			**26.8**	**23.0**	**20.4**	**18.0**	**16.1**	**14.7**	**13.4**	**12.3**	**11.5**	**10.6**	**10.0**	**9.4**	**8.8**	**8.8**				290# Cap.	8x12 Ins.
W-226	Boiler Efficiency—%			74.8	74.5	74.2	73.8	73.4	73.0	72.6	72.1	72.0	71.5	71.4	71.2	70.8	70.2					
	Stack Gas Temp.—°F			300	325	350	380	410	435	465	495	525	550	580	610	640	665					
Grate Area	**Combustion Rate**			**3.10**	**3.60**	**4.10**	**4.61**	**5.13**	**5.65**	**6.18**	**6.73**	**7.25**	**7.80**	**8.31**	**8.85**	**9.40**	**10.0**				220# Avail.	35 ft. High
2.65 Sq. Ft.	Draft—Ins. of Water			.017	.025	.033	.042	.048	.055	.062	.069	.078	.087	.098	.110	.125	.135					

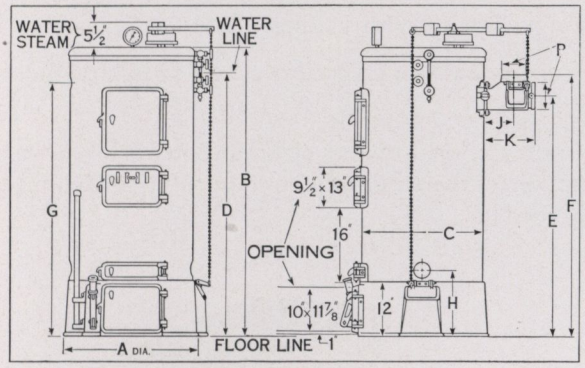
To select boiler required add actual radiator load (in sq. ft.) to piping load (in equivalent sq. ft. of radiation).
This total load is the output in equivalent direct radiation to be used. Select boiler between heavy lines having the desired firing period and combustion rate.
The above tables are based on fuel having 12,500 B.t.u. per pound.
For fuels of other calorific values see page 148—1 for method of determining total load.

24-Inch Crane Round Boiler—Performance Data

Number of Boiler	Output in Equivalent Direct Radiation Sq. Ft.																	Fuel Cap. Fuel Avail.	Stack Size and Hght.
	Steam (240 B.t.u.)	*370*	*420*	*470*	*520*	*570*	*620*	*670*	*720*	*770*	*820*	*870*	*920*	*970*	*1020*	*1070*	*1120*	*1170*	
	Water (150 B.t.u.)	**592**	**672**	**752**	**832**	**912**	**992**	**1072**	**1152**	**1232**	**1312**	**1392**	**1472**	**1552**	**1632**	**1712**	**1792**	**1872**	
	B.t.u. Per Hour (100's)	888	1008	1128	1248	1358	1488	1608	1728	1848	1968	2088	2208	2328	2448	2568	2688	2808	
S-244	**Firing Period—Hours**	**26.3**	**23.0**	**20.4**	**18.2**	**16.5**	**15.0**	**13.8**	**12.7**	**11.8**	**11.0**	**10.3**	**9.7**	**9.2**					345# Cap.
W-244	Boiler Efficiency—%	71.8	71.3	71.0	70.0	69.2	69.0	68.3	67.7	67.3	66.8	66.4	66.2	66.0					8x12 Ins.
	Stack Gas Temp.—°F	460	510	565	615	670	720	770	815	870	920	975	1015	1065					
Grate Area	**Combustion Rate**	**3.15**	**3.60**	**4.05**	**4.55**	**5.00**	**5.50**	**6.00**	**6.50**	**7.00**	**7.50**	**8.00**	**8.50**	**9.00**					260# Avail.
3.14 Sq. Ft.	Draft—Ins. of Water	.018	.023	.030	.038	.046	.055	.065	.077	.090	.103	.117	.135	.150					35 ft. High
S-245	**Firing Period—Hours**		**23.3**	**20.8**	**18.6**	**17.0**	**15.5**	**14.2**	**13.1**	**12.3**	**11.4**	**10.7**	**10.1**	**9.5**	**9.0**	**8.5**			345# Cap.
W-245	Boiler Efficiency—%		72.3	72.1	71.5	71.1	70.8	70.3	69.8	69.7	69.2	68.7	68.6	68.1	67.7	67.4			8x12 Ins.
	Stack Gas Temp.—°F		380	415	445	480	510	540	575	605	640	670	700	737	765	800			
Grate Area	**Combustion Rate**		**3.55**	**3.98**	**4.45**	**4.87**	**5.35**	**5.83**	**6.30**	**6.75**	**7.25**	**7.75**	**8.20**	**8.70**	**9.20**	**9.70**			260# Avail.
3.14 Sq. Ft.	Draft—Ins. of Water		.023	.029	.036	.043	.050	.062	.073	.083	.095	.110	.123	.140	.155	.175			35 ft. High
S-246	**Firing Period—Hours**			**27.2**	**19.1**	**17.2**	**15.8**	**14.5**	**13.5**	**12.6**	**11.7**	**11.0**	**10.4**	**9.9**	**9.4**	**8.9**	**8.4**	**8.1**	345# Cap.
W-246	Boiler Efficiency—%			73.7	73.4	73.1	72.5	71.9	71.7	71.5	71.1	70.8	70.7	70.6	70.5	70.4	70.3	70.2	8x12 Ins.
	Stack Gas Temp.—°F			345	370	395	420	445	470	495	520	545	570	595	625	650	680	700	
Grate Area	**Combustion Rate**			**3.90**	**4.33**	**4.80**	**5.23**	**5.70**	**6.14**	**6.58**	**7.05**	**7.50**	**7.95**	**8.40**	**8.85**	**9.30**	**9.85**	**10.18**	260# Avail.
3.14 Sq. Ft.	Draft—Ins. of Water			.025	.034	.042	.050	.059	.070	.080	.092	.103	.115	.130	.145	.160	.180	.190	35 ft. High

To select boiler required add actual radiator load (in sq. ft.) to piping load (in equivalent sq. ft. of radiation).
This total load is the output in equivalent direct radiation to be used. Select boiler between heavy lines having the desired firing period and combustion rate.
The above tables are based on fuel having 12,500 B.t.u. per pound.
For fuels of other calorific values see page 148—1 for method of determining total load.

General Dimensions Crane Round Boiler For Coal Burning



No. of Boiler	A Dia.	B		C	D	E	F	G	H	J	K	P	No. & Size of Inlets	No. & Size of Water Outlets	No. & Size of Steam Outlets
		Water	Steam												
W or S-184		49⅛	53⅞		48½	44	48½	46							
W or S-185	26½	53⅞	58⅝	24¼	53¼	48¾	53¼	50¾	14¼	6½	11¼	8	2-2½	2-2½	1-2½
W or S-186		58⅝	63⅜		58	53½	58	55½							
W or S-204		49⅛	53⅞		48½	44	48½	46							
W or S-205	29¼	53⅞	58⅝	27	53¼	48¾	53¼	50¾	14⅝	6½	11¼	8	2-3	2-3	1-3
W or S-206		58⅝	63⅜		58	53½	58	55½							
W or S-224		49⅛	53⅞		48½	44⅜	49¼	46							
W or S-225	31½	53⅞	58⅝	29⅜	53¼	49⅛	54	50¾	14⅝	7½	12⅝	9	2-3	2-3	1-3
W or S-226		58⅝	63⅜		58	53⅞	58¾	55½							
W or S-244		49⅛	53⅞		48½	44⅜	49¼	46							
W or S-245	34¼	53⅞	58⅝	32⅛	53¼	49⅛	54	50¾	14⅞	7½	12⅝	9	2-3½	2-3½	1-3½
W or S-246		58⅝	63⅜		58	53⅞	58¾	55½							

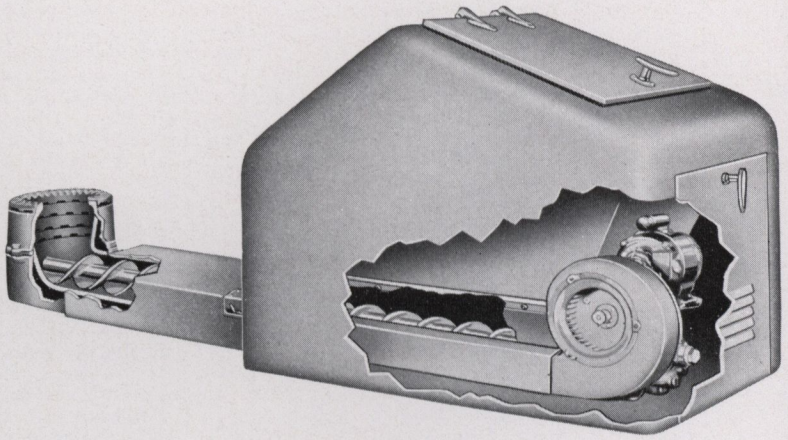
THE AUTOCOAL STOKER
FOR BITUMINOUS COAL

The Autocoal Stoker brings to you the latest improvements for the scientific burning of coal. Every part is carefully made of the best material for its particular purpose.

Power is supplied by a General Electric motor, of ample power for each unit.

The transmission is scientifically built for perfect stoker operation by a factory which has been building transmissions and other precision parts for more than thirty years. The five speeds provide for proper adjustment to the heating plant and its heating load. Major parts are of drop-forged steel, hardened and ground.

Every friction point of the entire stoker is inside the transmission case, and runs in an oil bath, assuring long, quiet, and efficient operation.



Model Nos. 35

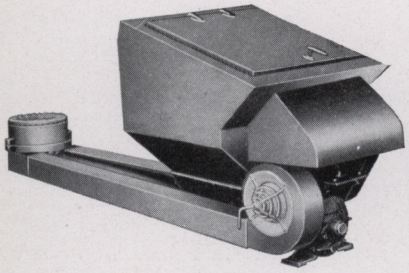
One continuous seamless steel tube from transmission to burner assures perfect alignment and smooth passage for coal to travel freely.

Hardened cast steel worm, scientifically tapered in hopper for efficient trouble-free operation.

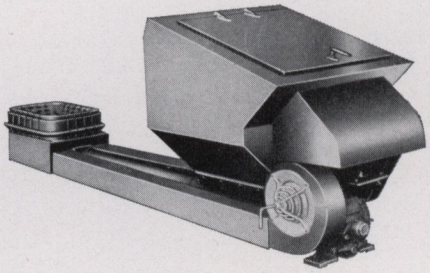
Hopper of 14-gauge copper-bearing steel electric welded and gasketed to be air tight, beautifullly finished in Crane green. Easily accessible door for inspection of worm or removal of obstructions.

The stoker is protected from damage in operation by a thermal-overload switch on motor, and a readily accessible shear pin on transmission.

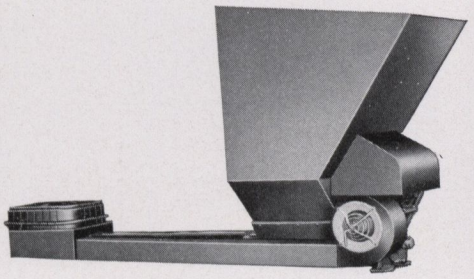
Burner of the full coking type is made with sectional tuyeres of high-content chromium alloy iron, designed to give perfect combustion and long life. All tuyere openings direct the air downward into the approaching coal, thus churning the oxygen and coal gases together for perfect combustion of the fuel.



Model No. 50



Model Nos. 75 and 100



Model No. 150

SIZES, CAPACITIES AND ENGINEERING DATA

Model No.	Type	Coal Feed per Hour (Pounds) Min. Max.	Boiler H.P.	Amount of Radiation		Warm Air Pipe Area Sq. Ins.	Hopper Capacity (Pounds)	Motor H.P.	Shipping Wt., Approx. Pounds
				Steam Sq. Ft.	Hot Water Sq. Ft.				
35	Bit.	7 to 35	7	800	1280	1440	350	1/6	460
50	Bit.	10 to 50	12	1200	1920	2160	500	1/4	560
75	Bit.	15 to 75	15	1800	2880	.....	500	1/3	660
100	Bit.	20 to 100	22	2500	4000	.....	500	1/2	700
150	Bit.	30 to 150	33	3900	6240	.....	1000	3/4	750

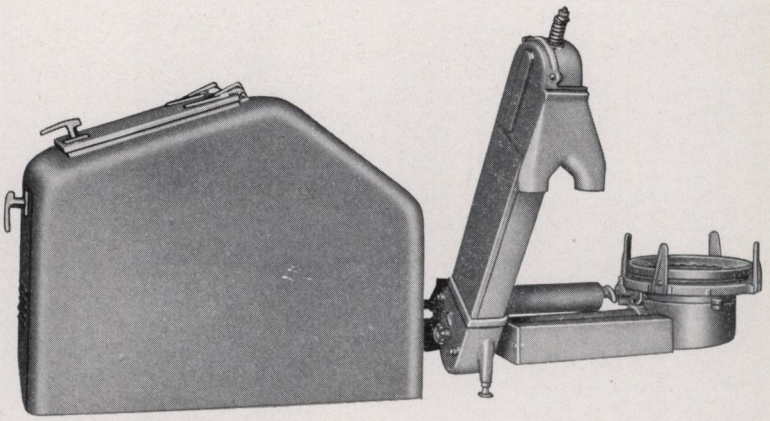
NOTE: The above ratings are based on average conditions. Capacity shown is standing radiation or actual load.

NOTE: The ratings are based on 12000 B.T.U. coal, with stoker running only approximately 12 hours a day.

For prices consult your Crane Branch or Crane Wholesaler

AUTOCOAL STOKER
FOR ANTHRACITE COAL

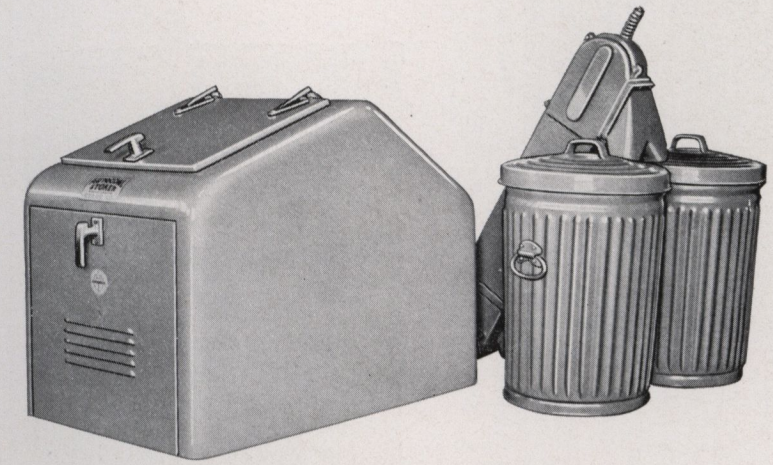
The Autocoal Anthracite Stoker provides safe, clean, dependable, economical heating in the full modern sense of that term . . . no raking or shaking—no drafts to regulate—automatically controlled temperature without fuss or worry Its convenience is unquestionable. Very little attention is required. Fill the hopper with coal every day or so, depending on the weather, and the stoker does the rest. It is well to stress the points of advantage: First, the machine requires only a few minutes care and is completely automatic; Second, ashes are automatically removed; Third, valuable time is saved in the morning and evening because banking and starting are abolished in favor of a continuous fire properly controlled; Fourth, automatic regulation of temperature; Fifth, a husband can relieve a great burden from his wife and family by installing this automatic anthracite stoker.



ANTHRACITE STOKER SPECIFICATIONS

Model	Tuyere Size	Feed	Coal Feed Lbs.	Boiler H.P.	Steam Sq. Ft.	E. D. R. Hot Water, Sq. Ft.	E. D. R. Warm Air, Sq. In.	B.T.U.	Hopper Cap., Lbs.	Motor H.P.	Shipping Weight, Approx. Pounds
ST3ERJA	13″	1 2 3	5 10 15	1.4 2.9 4.3	145 290 435	232 464 697	261 522 783	35,000 70,000 105,000	360	1/6	720
ST5ERJA	15″	4	20	5.8	580	930	1044	140,000	360	1/6	730
ST8ERJA	18″	5	25	7.2	720	1153	1296	175,000	360	1/6	750
ST0ERJA	20″	6 7	30 35	8.6 10	860 1000	1376 1600	1548 1800	210,000 240,000	360	1/6	770

These Ratings based on 11,5000 B.T.U. Coal. Grate Level Setting.



AUTOMATIC ASH REMOVAL

The Autocoal Stoker is equipped with a mechanical ash removal that automatically places the ashes into dust-tight cans for easy removal from the basement. The revolving strike maintains a uniform head of coals on the burner, and rakes the ashes into the removal worm tube, to send them silently on their way to the sealed can at the side of the stoker.

POINTS TO STRESS

Provides even temperature that varies hardly more than two degrees at any time.

Cuts coal bills because it uses all heat units.

No grates to shake.

No fires to bank at night.

REMOVES ASHES! Ashes are automatically removed from the furnace and conveyed to dust-proof cans.

Saves labor . . . Fill the hopper once every 24 to 48 hours, depending on the severity of the weather. The rest is automatic.

Under-feed firing—like a blacksmith with his forge bellows—gives near perfect combustion. Maximum efficiency in heating.

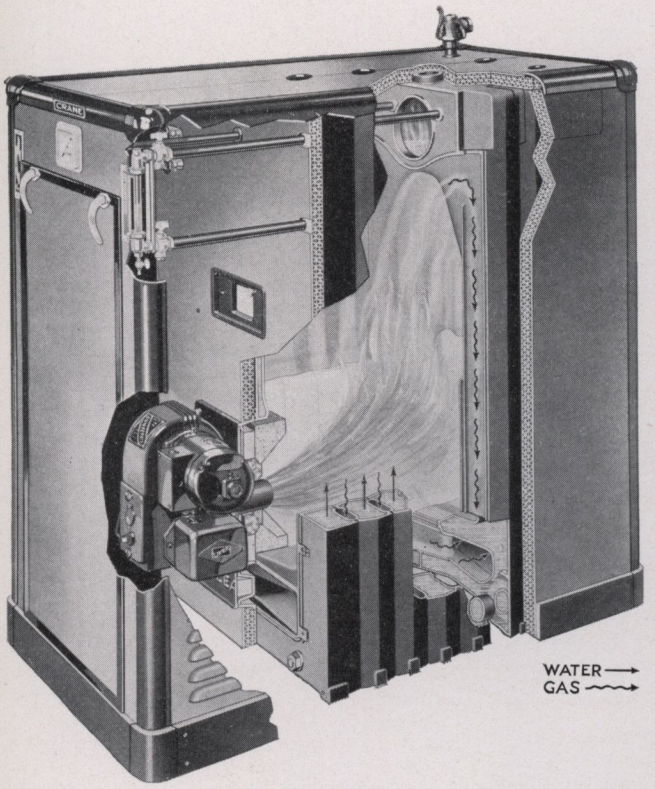
Fire won't go out during warm spells. Much more dependable!

No more dirt, soot or smudge in the home.

For prices consult your Crane Branch or Crane Wholesaler

CRANE SUSTAINED HEAT BOILER BURNER UNIT

(Patented and Patents Pending)

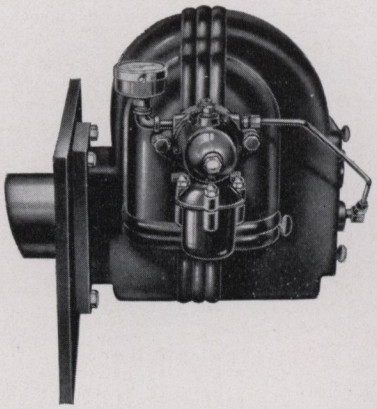


With DeLuxe Jacket Burner Enclosed

The Crane Sustained Heat Boiler designed exclusively for the combustion of oil, *economically*, differs from the conventional boiler in the introduction of the exclusive Crane Sustained Heat principle.

The Crane Sustained Heat Boiler prevents the escape of heat when the oil burner shuts off. After the gases rise to the top of the firebox, they are conducted downward instead of upward, as is usually the case, through flue passes between adjacent sections. These flues run into two horizontal, completely water-jacketed passes at the bottom. When the oil burner shuts off, the heated gases rise. As there is no escape at the top of the Crane boiler, the heat is sustained longer and is absorbed by the water in the sections. Thus the Crane Sustained Heat Boiler extracts more Btu's from the gases and it is this construction which gives the exceptionally high efficiencies found in the Crane Sustained Heater Boiler.

1. Down draft flue design for "SUSTAINED HEAT."
2. Easily accessible cleanouts.
3. 1½" asbestos air cell insulation.
4. Factory molded refractory.
5. Crane renowned precision machining.
6. Designed for approved gun type oil burners.
7. Flame observation port.
8. Completely water-jacketed flue passes.



The boiler and burner, designed to complement each other, result in a unified system that assures maximum efficiency—minimum operating cost. The *Conservoil* Burner, result of years of experience in the manufacture of oil burners, possesses the famous floating flame which keeps the fire in complete suspension and enables the boiler surface to absorb all possible heat. The efficient design and simplified construction permit the burning of even the cheaper grades of fuel oil without waste, noise or unpleasant odors.

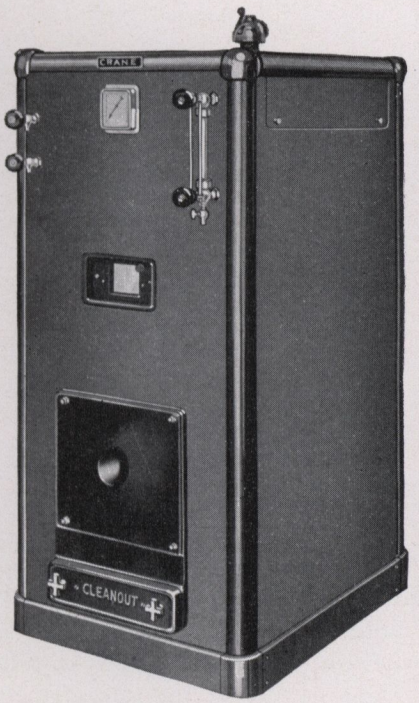
Designed for maximum simplicity, blower and air-control housing as well as the fuel unit mounting hub are cast in one single piece, guaranteeing perfect alignment of all parts. The elimination of side stress and thrust have added years of service to pump and motor bearings.

The powerful long-lived motor drives the pump and fan both on the same shaft—this is the only moving part in the *Conservoil* Burner.

The oil is introduced by the pump to the nozzle, where it is broken up into billions of fine particles which guarantee complete combustion. Air movement is maintained through the draft tube at an even flow, assuring steady, noiseless action.

This mist of oil and air is carried past the *Conservoil* electrodes which are not in the direct path of the oil and therefore never become loaded with carbon. The high temperature of the rich spark ignites the oil and the famous floating flame results—a constant hot flame that burns clean, assuring maximum heating efficiency.

The *Conservoil* Oil Burner is completely concealed within the DeLuxe jacket of the unit, yet, it is easily accessible for servicing.



With Plain Jacket Burner Exposed

The Answer to True Oil-Burning Efficiency . . . .

The early attempts to burn oil for home heating were a great deal like the first efforts to build a motor car. Engineers had to forget all the traditions of carriage-making before the "horseless carriage" became the efficient machine of today. Similarly, true oil-burning efficiency could not be attained until engineers stopped trying to convert a coal-burning boiler and designed one particularly for oil.

Crane Co. called upon its engineers for such a boiler. After intensive study, test, and development, here is the result—the highly efficient Crane Oil-Burning Boiler, Series "D1."

In the usual boiler construction the gases of combustion rise *upward*, pass through horizontal flues at the *top* and then through a smokehood at the back. This traditional design, when used for oil burning, lets the heat escape from the boiler quickly every time the oil burner shuts off.

The Crane special oil-burning boiler stops this loss with the introduction of the "Sustained Heat" principle. After the gases rise to the top of the fire box, they are conducted *downward*, instead of upward, through flue passes between adjacent sections. These flues run into two horizontal, completely water-jacketed passes at the bottom.

When the oil burner shuts off, the tendency of the light heated gases is to rise. As there is no escape for them at the top of the Crane boiler, the heat is sustained longer. More B.t.u.'s are absorbed by the water in the boiler and there is less re-heating when the oil burner automatically starts. Crane "*Sustained Heat*" extracts the maximum available heat units from the oil and produces exceptionally high efficiencies.

The Crane patented controlled water travel baffle is incorporated in the water legs of all sections, thus causing the water to flow over all the heating surfaces counter-current to the hot gases.

Adding to these efficiencies is the unique design of the smokehood. After the gases leave the boiler at the bottom, they must travel upward through the insulated smokehood passing along the water-bearing back section. The greatest possible amount of heat is extracted before the gases pass into the chimney. The smoke pipe connection is three feet from the floor, facilitating the fabrication of the chimney connection.



A section showing the down draft flues which provide SUSTAINED HEAT



The unique smokehood supplies extra secondary heating surface

Asbestos air cell insulation, 1½ inches thick, is firmly attached to the heavy steel jacket, further insuring against heat loss. The jacket may be easily installed after the boiler is assembled, connected, and tested, a feature of convenience and economy.

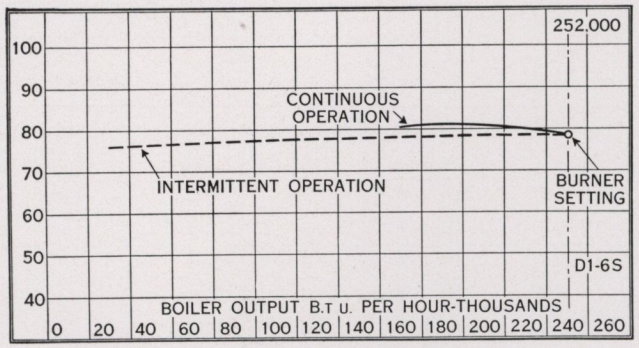
In the cleaning of flues, the peculiarities of oil-burning have been considered. The usual facilities for cleaning flues are inadequate and the performance of many oil-burning boilers is handicapped by soot insulation. Crane engineers have solved the problem with exceptionally accessible flues and smooth casting of flue surfaces, easily cleaned by means of the flexible flue brush furnished with each boiler.

Crane oil-burning boilers are cast in the same foundries and machined with the same equipment which have helped make Crane heating boilers outstanding in their field. Supplied in 4, 5, 6, 7, and 8-section assemblies, the "D1" series is capable of handling steam loads up to 1400 square feet of steam radiation and hot water loads up to 2240 feet.

Where large volume domestic water heating is desired for large buildings, the steam boiler assemblies, used with an indirect water heating appliance alone, are capable of producing from 145 to 400 gallons of water per hour heated 100°.

In its distinctive two-tone green jacket with chromium plated trimmings, unexcelled for workmanship, performance, and appearance, the Crane "D1" series boiler meets the need for a *real* oil-burning boiler.

Typical Performance of Crane Boiler with Burner



To determine equivalent direct radiation divide B.t.u. per hour by 150 for water; by 240 for steam

Performance Data No. D1 Crane Oil-Burning Boilers

Number of Boiler	Output in Equivalent Direct Radiation Sq. Ft.																				Heating Surface	Stack Size and Height
	Steam (240 B.t.u.)	*500*	*550*	*600*	*650*	*700*	*750*	*800*	*850*	*875*	*900*	*950*	*1000*	*1050*	*1100*	*1150*	*1200*	*1225*	*1250*	*1300*	*1350*	*1400*		
	Water (150 B.t.u)	**800**	**880**	**960**	**1040**	**1120**	**1200**	**1280**	**1360**	**1400**	**1440**	**1520**	**1600**	**1680**	**1760**	**1840**	**1920**	**1960**	**2000**	**2080**	**2160**	**2240**		
	B.t.u. per Hour (1000's)	120	132	144	156	168	180	192	204	210	216	228	240	252	264	276	288	294	300	312	324	336		
D1-4S	Heat Transmission Rate	2765	3041	3318	3594	3871																	43.4 Sq.ft.	8x8 30 ft.
D1-4W	Minimum Burner Capacity	8.1	8.7	9.6	10.5	11.3																		
D1-5S	Heat Transmission Rate					3083	3303	3523	3743	3853													54.5 Sq.ft.	8x8 30 ft.
D1-5W	Minimum Burner Capacity					11.1	11.8	12.8	13.8	14.2														
D1-6S	Heat Transmission Rate								3105	3196	3288	3470	3653	3836									65.7 Sq.ft.	8x12 30 ft.
D1-6W	Minimum Burner Capacity								13.4	13.8	14.2	15.2	16.2	17.0										
D1-7S	Heat Transmission Rate													3281	3438	3594	3750	3828					76.8 Sq.ft.	8x12 35 ft.
D1-7W	Minimum Burner Capacity													16.6	17.4	18.4	19.4	19.8						
D1-8S	Heat Transmission Rate																3276	3345	3413	3549	3686	3823	87.9 Sq.ft.	8x12 35 ft.
D1-8W	Minimum Burner Capacity																18.9	19.3	19.7	20.5	21.6	22.7		

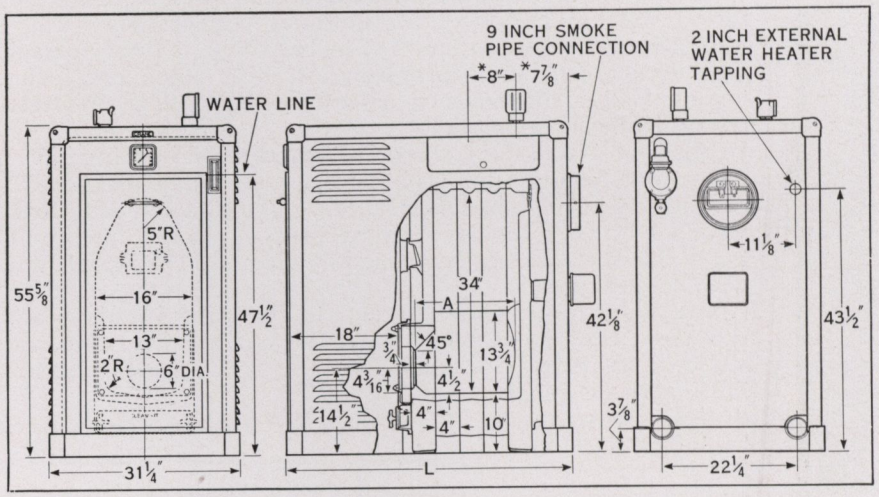
Heat transmission rate = B.t.u. transferred per hour per sq. ft. of boiler heating surface.
Minimum burner capacity = minimum pounds of oil burned per hour. (19,000 B.t.u. per lb.)

Choosing An Oil Burning Boiler

Crane D1 Series oil burning boiler outputs are figured in the Rating Table on the use of commercial fuel oil having a heating value of 19,000 B.t.u. per pound.

To select a boiler of suitable size for an oil burning installation, combine the actual standing radiation, piping, and domestic water loads in terms of Equivalent Direct Radiation as is customary for all coal and oil burning boilers. To this, however, must be added the "pick up" load in square feet, which depends upon the characteristics of the oil burner and the total load of Equivalent Direct Radiation. The customary practice is to use a "pickup" load factor of 25% of the total radiation load.

General Dimensions



Boiler Dimensions

Number of Boiler		*Outlets No. & Size	Inlets No. & Size	Size of Pop Valve	Dimensions		Assemblage of Sections
Steam	Water				A	L	
D1-4-S	**D1-4-W**	2-2½	2-3	¾	12½	43	DF-DMT-DM-DRT
D1-5-S	**D1-5-W**	2-2½	2-3	¾	16½	47	DF-DM-DMT-DM-DRT
D1-6-S	**D1-6-W**	3-2½	2-3	1	20½	51	DF-DMT-DM-DMT-DM-DRT
D1-7-S	**D1-7-W**	3-2½	2-3	1	24½	55	DF-DM-DMT-DM-DMT-DM-DRT
D1-8-S	**D1-8-W**	4-2½	2-3	1¼	28½	59	DF-DMT-DM-DMT-DM-DMT-DM-DRT

*All Outlet Tappings are 8" Center to Center.
Drawing shows 5 Section Boiler Assembly.
DF—Front Section. DM—Intermediate Section
"L" is overall length of deluxe jacket. Deduct 19" for overall length of plain jacket.
DMT—Intermediate Section—Tapped. DRT—Rear Section—Tapped.

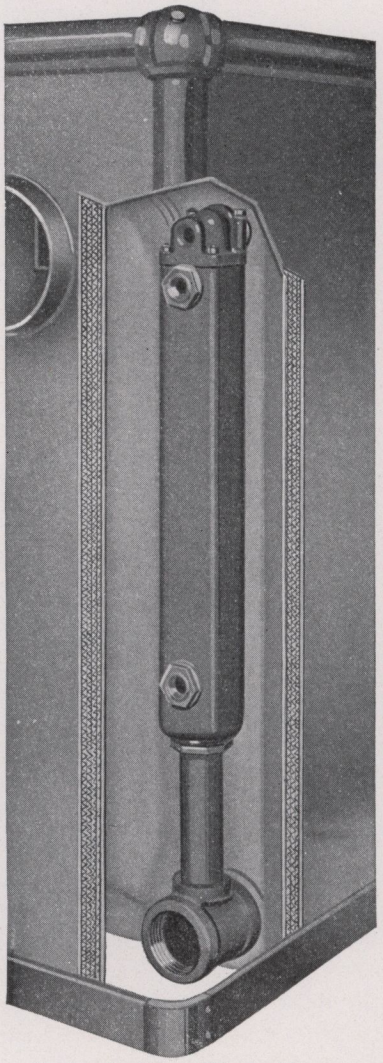
Standard Equipment

Standard Equipment furnished with Sustained Heat Boilers includes:

Steam Boilers: Factory molded refractory which eliminates expensive and tedious work; Low water cutoff; No. 1168 side outlet pop safety valve; Water gauge; No. 731 try-cocks; Combination vacuum and pressure gauge with chromium plated frame; Insulated steel jacket; Flexible wire flue brush; Indirect Water Heater.

Hot Water Boilers: Factory molded refractory; Combination altitude gauge and thermometer with chromium plated frame; Insulated steel jacket; Flexible wire flue brush; Indirect Water Heater.

The Bell & Gossett No. 120 Indirect Water Heater which is furnished as regular equipment will heat 120 gallons of water from 50 to 150 degrees in three hours, with boiler water at 212°. With boiler water at 180° this heater has a capacity of 80 gallons in three hours.



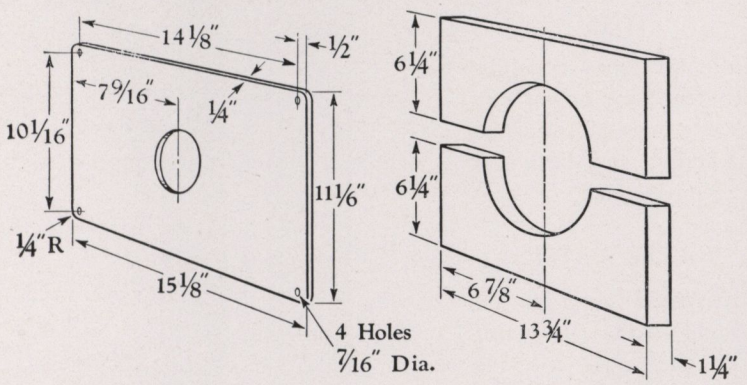
Shows Indirect Water Heater Applied to Boiler

Optional Equipment

Optional equipment includes:

An Automatic Water Feeder for steam boilers which insures a constant water line.

Dimensions of Burner Plate and Burner Plate Insulation Pad



Burner Plate — Burner Plate Insulation Pad

(Burner Adapter Plate and Insulation Pad furnished by Oil Burner Manufacturer)

THE CRANE FIN-TYPE OIL BURNING BOILER

The last word in boiler design—the Fin-Type was engineered for efficient and economical burning of oil. The extra long flues, cast with myriads of fins, trap the heat in the gases—absorb more heat—assure a high boiler efficiency.

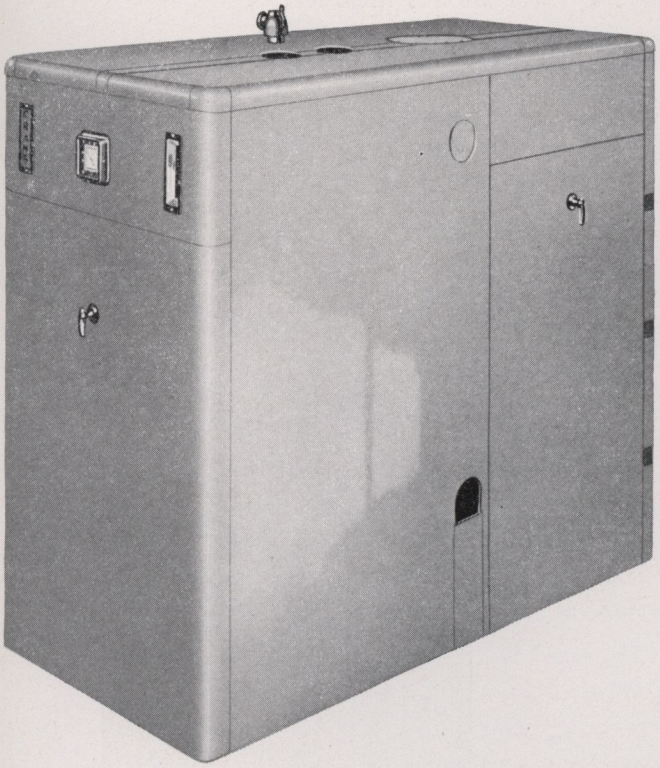
CONSTRUCTION

All sections of the Fin-Type Boiler are machine-ground, assuring a close, tight fit. This prevents escape of gases and the infiltration of air. The back section is curved for added strength.

The Crane patented water baffle directs the water travel across the top of the combustion chamber giving greater efficiency—saving fuel.

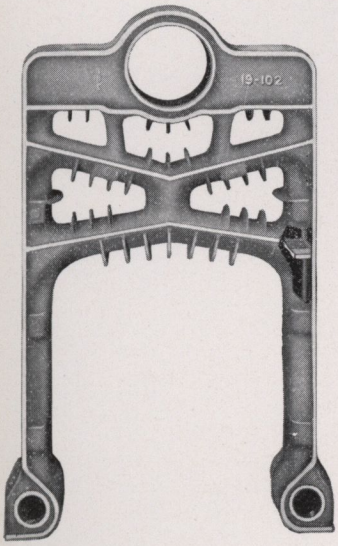
In steam boilers the water line is carried one-third of the way into the large push nipple at the top which provides continuous water circulation throughout the boiler.

The handsome metal jacket finished in green baked-on enamel, has a heavy corrugated asbestos insulation keeping the heat inside—assuring a boiler so cool you can keep your hand against it at any time. The finish is baked-on enamel in a rich green. The jacket houses the oil burner and all controls as well as the boiler. Its beautiful appearance makes it suitable where the basement is to be utilized as a game room or for other purposes. At the front of the jacket a door provides access to the observation port which permits you to see the flame at a glance.



Cross Section View

The cross-section view shows the efficient finned section that absorbs greater heat—the heavy asbestos insulated jacket—the Crane patented water baffle—the Pyrex glass observation port for seeing the flame—the large top push nipples that assure constant water circulation in steam boilers—the built on water heater that gives an ample supply of hot water, winter and summer.

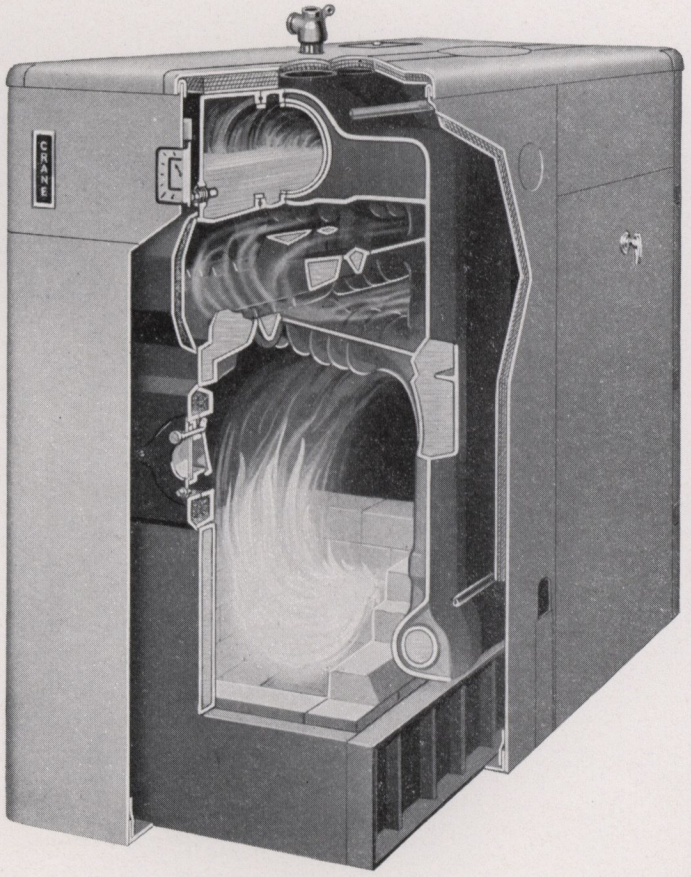


FINS

Boiler sections are designed with many fins. These greatly increase the heating surface and mean real economy in fuel.

WATER BAFFLE

A patented Crane feature which directs the water over the most effective heating surface increasing the efficiency of the boiler and assuring greater economy.



THE CRANE FIN-TYPE OIL BURNING BOILER

DIMENSIONS AND SECTION ASSEMBLY

Number of Boiler		Outlets No. and Size	Inlets No. and Size	Size of Pop Valve (Steam Boilers)	Dimensions A		B	C	D	Section Assembly Order
Steam	Water				Deluxe Jacket	Plain Jacket				
FS-4	FW-4	1-3	2-3	3/4	49 7/8	25 1/8	14 1/2	.....	.....	F-RT
FS-5	FW-5	1-3	2-3	3/4	53 3/8	28 5/8	18	.....	.....	F-SM-RT
FS-6	FW-6	2-3	2-3	1	56 7/8	32 1/8	21 1/2	7	.....	F-MT-RT
FS-7	FW-7	2-3	2-3	1	60 3/8	35 5/8	25	7	.....	F-SM-MT-RT
FS-8	FW-8	2-3	2-3	1 1/4	63 7/8	39 1/8	28 1/2	14	.....	F-MT-M-RT
FS-9	FW-9	2-3	2-3	1 1/4	67 3/8	42 5/8	32	14	.....	F-SM-MTM-RT
FS-10	FW-10	3-3	2-3	1 1/4	70 7/8	46 1/8	35 1/2	7	14	F-MT-M-MT-RT
FS-11	FW-11	3-3	2-3	1 1/4	74 3/8	49 5/8	39	7	14	F-SM-MT-M-MT-RT

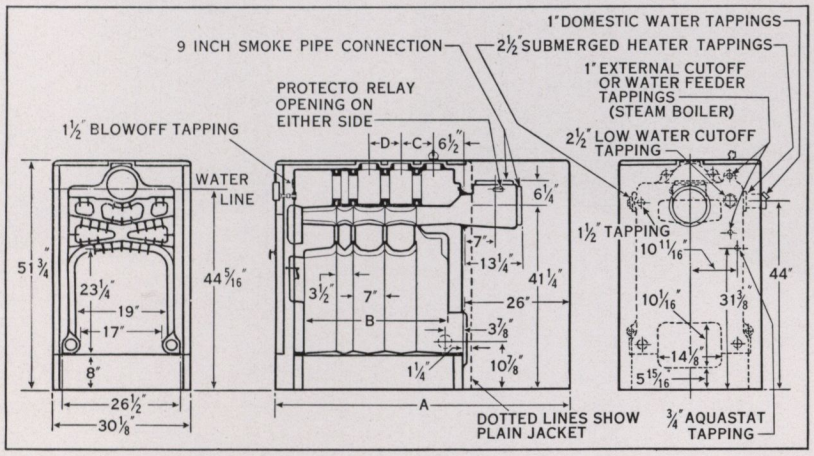
F—Front Section. SM—Single Intermediate Section. M—Intermediate Section. MT—Intermediate Section, Tapped. RT—Rear Section tapped

Deluxe Jacket, which completely conceals burner, smokehood, submerged water heater (when used), controls and wiring is regularly furnished. Plain jacket, which does not conceal these parts, is also available.

TRIMMINGS:

Steam Boilers: Compound pressure and vacuum gauge, No. 1168 side outlet pop safety valve, water gauge, trycocks, low water cut-off, burner plate, and flue brush.

Water Boilers: Combination thermometer, pressure and altitude gauge, burner plate, and flue brush.



RATINGS AND DATA

STEAM		WATER		Heating Surface Sq. Ft.	CHIMNEY	
No. of Boiler	*Installed Radiation	No. of Boiler	*Installed Radiation		Size—Inches	Height—Feet
FS-4	360	FW-4	580	27.7	8x8	30
FS-5	440	FW-5	705	33.7	8x8	30
FS-6	520	FW-6	835	39.9	8x8	30
FS-7	600	FW-7	960	46.1	8x12	35
FS-8	685	FW-8	1100	52.6	8x12	35
FS-9	765	FW-9	1225	58.8	8x12	35
FS-10	845	FW-10	1350	65.0	12x12	35
FS-11	925	FW-11	1480	71.0	12x12	35

*—Capacities are for net installed radiation and nothing need be added for normal piping and pick-up. They are based on a heat transmission rate of 4500 B.t.u. per sq. ft. of boiler heating surface, 240 B.t.u. emission per sq. ft. of steam radiation, and 150 B.t.u. per sq. ft. of water radiation.

Either 40- or 66-gallon capacity submerged water heaters are available. Capacities are based on 180-degree Fahr. boiler water temperature and 40- to 140-degree Fahr. rise in three hours. When submerged water heater is installed, add one sq. ft. per gallon of tank capacity to installed radiation on steam boilers. Add two sq. ft. per gallon of tank capacity on water boilers before selecting boiler size.

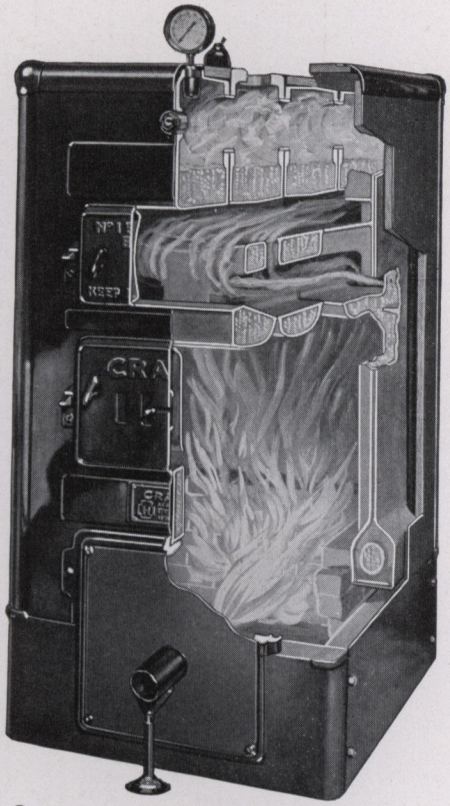
W. O. and S. O. Sectional Boilers for Oil Burning

WITH DELUXE JACKET
Series 1 W. O. and S. O.
(Burner Enclosed)



This deluxe jacket in an attractive two-tone green is furnished on request. Fits neatly and gives a finished appearance. Encloses the whole boiler and adds beauty to the basement. Thorough insulation minimizes heat loss. Louvers of harmonious design admit air to the burner. The tailored exterior makes the basement an added room.

Series 1, 2, 3 and 4 W. O. and S. O.
(Burner Exposed)



Cut-away view of the Crane Sectional Boiler for Oil Burning

Crane Sectional Boilers are readily adapted to all types of oil burning equipment. All the advantages already described for the coal burning boiler as fully apply to the oil burning boiler except those which have to do with the grates, with firing, and with automatic regulator control. For list of advantages, see page 147—3.

Choosing an oil burning boiler

Oil burning boiler outputs are figured in the Rating Table on the use of fuel oil having a heating value of 19,000 B.t.u. per pound.

To select a boiler for an oil burning installation, the radiation and piping loads should be calculated in the same manner as for a coal boiler. Add to this the "pickup" load, for which 25% is the usual factor.

Example:

Total Net Load (installed steam radiation+piping load+domestic water) is	850 sq. ft.
Pickup Load (25%)	213 sq. ft.
	1063 sq. ft.

Referring to the Performance Data Tables for Oil Burning Boilers, the correct size of boiler for 1063 sq. ft. steam output, at a heat transmission rate under 4000 B.t.u., would be a No. 2-8-SO. The heat transmission rate given in the Performance Data Tables represents the B.t.u. transfer rate through each square foot of boiler heating surface. The usual practice is not to exceed a transmission rate of 4000 B.t.u. on boilers having maximum steam loads up to 2000 sq. ft. and not more than 5000 B.t.u. on larger boilers. Greater boiler capacities can be obtained at higher transmission rates, but at a correspondingly lower efficiency.

No. 1—Crane Sectional Boiler For Oil Burning—Performance Data

Number of Boiler	Output in Equivalent Direct Radiation Sq. Ft.																	Heating Surface	Stack Size and Hght.
	Steam (240 B.t.u.)	*100*	*175*	*250*	*325*	*400*	*475*	*550*	*625*	*700*	*775*	*850*	*925*	*1000*	*1075*	*1150*	*1225*		
	Water (150 B.t.u.)	**160**	**280**	**400**	**520**	**640**	**760**	**880**	**1000**	**1120**	**1240**	**1360**	**1480**	**1600**	**1720**	**1840**	**1960**		
	B.t.u. Per Hour (1000's)	24	42	60	78	96	114	132	150	168	186	204	222	240	258	276	294		
1-5-SO	Heat Transmission Rate	1043	1826	2608	3391	4174	4957	5739										23.0	8x8
1-5-WO	Minimum Burner Capacity	1.6	2.9	4.2	5.6	6.9	8.4	9.9										Sq. ft.	30 ft.
1-6-SO	Heat Transmission Rate		1522	2174	2826	3478	4130	4783	5435	6087								27.6	8x8
1-6-WO	Minimum Burner Capacity		2.8	4.1	5.5	6.8	8.2	9.7	10.4	12.6								Sq. ft.	30 ft.
1-7-SO	Heat Transmission Rate			1863	2422	2981	3540	4099	4658	5217	5776							32.2	8x8
1-7 WO	Minimum Burner Capacity			4.1	5.4	6.7	8.1	9.6	10.3	12.5	14.0							Sq. ft.	30 ft.
1-8-SO	Heat Transmission Rate				2120	2609	3098	3598	4076	4565	5054	5543	6033					36.8	8x8
1-8-WO	Minimum Burner Capacity				5.4	6.7	8.1	9.5	10.1	12.3	13.7	15.2	16.7					Sq. ft.	30 ft.
1-9-SO	Heat Transmission Rate					2319	2754	3188	3623	4058	4493	4928	5362	5797				41.4	8x12
1-9-WO	Minimum Burner Capacity					6.6	8.0	9.4	10.0	12.1	13.5	15.0	16.5	18.0				Sq. ft.	30 ft.
1-10-SO	Heat Transmission Rate						2478	2870	3261	3652	4043	4435	4826	5217	5609	6000		46.0	8x12
1-10-WO	Minimum Burner Capacity						7.9	9.3	9.9	12.0	13.4	14.8	16.3	17.7	19.3	20.8		Sq. ft.	35 ft.
1-11-SO	Heat Transmission Rate							2609	2964	3320	3676	4032	4387	4743	5099	5455	5810	50.6	8x12
1-11-WO	Minimum Burner Capacity							9.2	9.9	11.9	13.3	14.7	16.2	17.5	19.0	20.4	22.2	Sq. ft.	35 ft.

No. 2—Crane Sectional Boiler For Oil Burning—Performance Data

Number of Boiler	Output in Equivalent Direct Radiation Sq. Ft.																			Heating Surface	Stack Size and Hght.
	Steam (240 B.t.u.)	*400*	*525*	*650*	*775*	*900*	*1025*	*1150*	*1275*	*1400*	*1525*	*1650*	*1775*	*1900*	*2025*	*2150*	*2275*	*2400*	*2525*	*2650*	
	Water (150 B.t.u.)	**640**	**840**	**1040**	**1240**	**1440**	**1640**	**1840**	**2040**	**2240**	**2440**	**2640**	**2840**	**3040**	**3240**	**3440**	**3640**	**3840**	**4040**	**4240**	
	B.t.u. Per Hour (1000's)	96	126	156	186	216	246	276	306	336	366	396	426	456	486	516	546	576	606	636	
2-6-SO	Heat Transmission Rate	1920	2520	3120	3720	4320	4920	5520	6120												50.0	8x12
2-6-WO	Minimum Burner Capacity	6.6	8.8	11.0	13.3	15.7	18.1	20.4	23.0												Sq. ft.	30 ft.
2-7-SO	Heat Transmission Rate		2161	2676	3190	3705	4220	4734	5249	5763											58.3	12x12
2-7-WO	Minimum Burner Capacity		8.7	10.9	13.1	15.5	17.7	20.0	22.7	25.2											Sq. ft.	30 ft.
2-8-SO	Heat Transmission Rate			2342	2793	3243	3694	4144	4595	5045	5495	5946									66.6	12x12
2-8-WO	Minimum Burner Capacity			10.8	13.0	15.3	17.5	19.7	22.4	24.8	27.0	29.8									Sq. ft.	35 ft.
2-9-SO	Heat Transmission Rate				2480	2880	3280	3680	4080	4480	4880	5280	5680	6080							75.0	12x12
2-9-WO	Minimum Burner Capacity				12.9	15.2	17.4	19.5	22.0	24.6	26.8	29.3	32.0	34.3							Sq. ft.	35 ft.
2-10-SO	Heat Transmission Rate					2593	2953	3313	3673	4034	4394	4754	5114	5474	5834						83.3	12x12
2-10-WO	Minimum Burner Capacity					15.1	17.3	19.4	21.8	24.2	26.5	28.9	31.6	34.0	36.6						Sq. ft.	40 ft.
2-11-SO	Heat Transmission Rate						2686	3013	3341	3668	3996	4323	4651	4978	5306	5633	5961				91.6	12x16
2-11-WO	Minimum Burner Capacity						17.2	19.2	21.6	24.0	26.3	28.7	31.1	33.6	36.1	38.9	41.0				Sq. ft.	40 ft.
2-12-SO	Heat Transmission Rate							2760	3060	3360	3660	3960	4260	4560	4860	5160	5460	5760	6060		100	12x16
2-12-WO	Minimum Burner Capacity							19.0	21.5	23.8	26.1	28.5	30.9	33.3	35.8	38.3	40.5	43.3	45.5		Sq. ft.	40 ft.
2-13-SO	Heat Transmission Rate								2825	3102	3380	3657	3934	4211	4488	4765	5042	5319	5596	5873	108.3	12x16
2-13-WO	Minimum Burner Capacity								21.4	23.6	26.0	28.3	30.7	33.1	35.6	37.8	40.2	42.7	45.0	47.7	Sq. ft.	40 ft.
2-14-SO	Heat Transmission Rate									2879	3136	3393	3650	3907	4165	4422	4679	4936	5193	5450	116.7	12x16
2-14-WO	Minimum Burner Capacity									23.4	25.8	28.1	30.5	32.9	35.4	37.3	40.0	42.2	44.5	47.1	Sq. ft.	45 ft.

Select a boiler at the transmission rate desired for the total of the actual radiation load plus piping load plus "pick up" load.

Heat transmission rate = B.t.u. transferred per hour per sq. ft. of heating surface.

Minimum Burner Capacity = Minimum pounds of oil burned per hour.

No. 3—Crane Sectional Boiler For Oil Burning—Performance Data

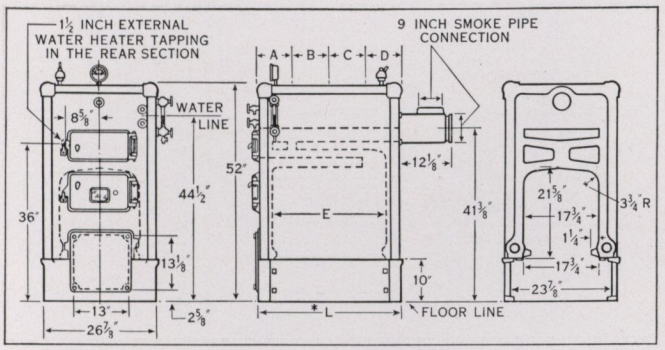
Number of Boiler	Output in Equivalent Direct Radiation Sq. Ft.																		Heating Surface	Stack Size and Hght.
	Steam (240 B.t.u.)	*875*	*1125*	*1375*	*1625*	*1875*	*2125*	*2375*	*2625*	*2875*	*3125*	*3375*	*3625*	*3875*	*4125*	*4375*	*4625*	*4875*		
	Water (150 B.t.u.)	**1400**	**1800**	**2200**	**2600**	**3000**	**3400**	**3800**	**4200**	**4600**	**5000**	**5400**	**5800**	**6200**	**6600**	**7000**	**7400**	**7800**		
	B.t.u. Per Hour (1000's)	210	270	330	390	450	510	570	630	690	750	810	870	930	990	1050	1110	1170		
3-8-SO **3-8-WO**	Heat Transmission Rate	1953	2512	3070	3628	4186	4744	5302	5860										107.5 Sq. ft.	12x16 40 ft.
	Minimum Burner Capacity	14.4	18.8	23.2	27.8	32.5	37.4	42.3	47.5											
3-9-SO **3-9-WO**	Heat Transmission Rate		2226	2721	3215	3710	4204	4699	5194	5688	6183								121.3 Sq. ft.	12x16 45 ft.
	Minimum Burner Capacity		18.7	23.0	27.6	32.2	36.8	41.7	46.7	51.5	56.5									
3-10-SO **3-10-WO**	Heat Transmission Rate			2444	2889	3333	3778	4222	4667	5111	5556	6000							135.0 Sq. ft.	16x16 45 ft.
	Minimum Burner Capacity			22.9	27.4	32.0	36.6	41.2	46.0	50.6	55.6	59.5								
3-11-SO **3-11-WO**	Heat Transmission Rate				2621	3024	3427	3831	4234	4637	5040	5444	5847						148.8 Sq. ft.	16x16 45 ft.
	Minimum Burner Capacity				27.2	31.8	36.3	40.9	45.5	50.0	55.2	58.6	65.5							
3-12-SO **3-12-WO**	Heat Transmission Rate					2769	3138	3508	3877	4246	4615	4985	5354	5723	6092				162.5 Sq. ft.	16x16 45 ft.
	Minimum Burner Capacity					31.6	36.1	40.6	45.1	49.6	54.9	58.2	64.5	69.5	74.5					
3-13-SO **3-13-WO**	Heat Transmission Rate						2893	3233	3573	3914	4254	4594	4935	5275	5615	5956			176.3 Sq. ft.	16x16 50 ft.
	Minimum Burner Capacity						35.8	40.3	44.8	49.3	54.5	57.8	64.0	69.0	74.0	79.0				
3-14-SO **3-14-WO**	Heat Transmission Rate							3000	3316	3632	3947	4263	4579	4895	5211	5526	5842	6158	190.0 Sq. ft.	16x20 50 ft.
	Minimum Burner Capacity							40.0	44.5	49.0	54.2	57.5	63.6	68.5	73.5	78.4	83.5	88.0		
3-15-SO **3-15-WO**	Heat Transmission Rate								3091	3386	3680	3974	4269	4563	4858	5152	5447	5741	203.8 Sq. ft.	16x20 50 ft.
	Minimum Burner Capacity								44.2	48.7	53.9	57.2	63.2	68.0	73.0	77.8	82.9	87.3		

No. 4—Crane Sectional Boiler For Oil Burning—Performance Data

Number of Boiler	Output in Equivalent Direct Radiation Sq. Ft.																		Heating Surface	Stack Size and Hght.
	Steam (240 B.t.u.)	*1450*	*1825*	*2200*	*2575*	*2950*	*3325*	*3700*	*4075*	*4450*	*4825*	*5200*	*5575*	*5950*	*6325*	*6700*	*7075*			
	Water (150 B.t.u.)	**2320**	**2920**	**3520**	**4120**	**4720**	**5320**	**5920**	**6520**	**7120**	**7720**	**8320**	**8920**	**9520**	**10120**	**10720**	**11320**			
	B.t.u. Per Hour (1000's)	348	438	528	618	708	798	888	978	1068	1158	1248	1338	1428	1518	1608	1698			
4-9-SO **4-9-WO**	Heat Transmission Rate	2035	2561	3088	3614	4140	4667	5193	5719	6246									171.0 Sq. ft.	16x16 45 ft.
	Minimum Burner Capacity	24.1	30.6	37.2	44.0	51.0	58.3	66.0	73.5	79.0										
4-10-SO **4-10-WO**	Heat Transmission Rate		2281	2750	3219	3688	4156	4625	5094	5563	6031								192.0 Sq. ft.	16x16 50 ft.
	Minimum Burner Capacity		30.3	37.0	43.7	50.7	57.5	65.0	72.5	78.0	87.0									
4-11-SO **4-11 WO**	Heat Transmission Rate			2479	2901	3324	3746	4169	4592	5014	5437	5859							213.0 Sq. ft.	16x20 50 ft.
	Minimum Burner Capacity			36.8	43.4	50.4	57.2	64.1	71.5	77.3	85.8	93.8								
4-12-SO **4-12-WO**	Heat Transmission Rate				2641	3026	3410	3795	4179	4564	4949	5333	5718	6103					234.0 Sq. ft.	16x20 55 ft.
	Minimum Burner Capacity				43.2	50.1	56.8	63.7	70.5	76.8	84.6	92.5	100.0	107.0						
4-13-SO **4-13-WO**	Heat Transmission Rate					2776	3129	3482	3835	4188	4541	4894	5247	5600	5953				255.0 Sq. ft.	16x20 55 ft.
	Minimum Burner Capacity					49.8	56.4	63.3	70.0	76.3	84.0	91.8	99.0	106.5	112.5					
4-14-SO **4-14-WO**	Heat Transmission Rate						2891	3217	3543	3870	4196	4522	4848	5174	5500	5826	6152		276.0 Sq. ft.	20x20 55 ft.
	Minimum Burner Capacity						56.0	62.9	69.5	75.8	83.5	91.2	98.5	106.0	111.0	121.0	127.5			
4-15-SO **4-15-WO**	Heat Transmission Rate							2990	3293	3596	3899	4202	4505	4808	5111	5414	5717		297.0 Sq. ft.	20x20 55 ft.
	Minimum Burner Capacity							62.5	69.0	75.3	83.0	90.6	98.0	105.5	110.0	120.0	126.0			

Select a boiler at the transmission rate desired for the total of the actual radiation load plus piping load plus "pick up" load.
Heat transmission rate = B.t.u. transferred per hour per sq. ft. of heating surface.
Minimum Burner Capacity = Minimum pounds of oil burned per hour.

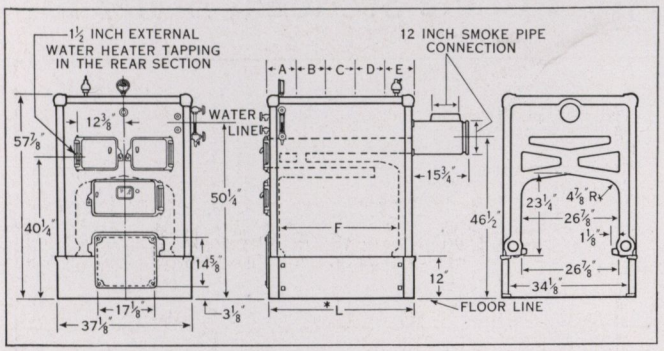
Dimensions No. 1 Crane Sectional Boiler for Oil Burning



No. of Boiler		Outlets No. and Size	Inlets No. and Size	Size of Pop Val.	Dimensions						Assemblage of Sections
Steam	Water				A	B	C	D	E	L	
1-5-SO	**1-5-WO**	1–3	2–3	¾	15 11/16			4 5/16	14 5/8	20	FSO-MO-RT
1-6-SO	**1-6-WO**	2–3	2–3	¾	12	7 11/16		4 5/16	18 5/8	24	FO-MTO-RT
1-7-SO	**1-7-WO**	2–3	2–3	¾	8	15 11/16		4 5/16	22 5/8	28	FSO-MTO-M-RT
1-8-SO	**1-8-WO**	2–3	2–3	1	12	15 11/16		4 5/16	26 5/8	32	FO-MTO-M-RT
1-9-SO	**1-9-WO**	2–3	2–3	1	16	15 11/16		4 5/16	30 5/8	36	FSO-MO-MT-M-RT
1-10-SO	**1-10-WO**	3–3	2–3	1 ¼	12	16	7 11/16	4 5/16	34 5/8	40	FO-MTO-M-MT-RT
1-11-SO	**1-11-WO**	3–3	2–3	1 ¼	8	16	15 11/16	4 5/16	38 5/8	44	FSO-MTO-M-MT-M-RT

*DeLuxe Jackets for Concealed Burners are 28" longer than Dimension "L".
FSO—4" Front Single Section
FO—8" Front Section
M—Intermediate Section
MO—Intermediate Section—Oil
MT—Intermediate Section—Tapped
MTO—Intermediate Section—Tapped—Oil
RT—Rear Section—Tapped

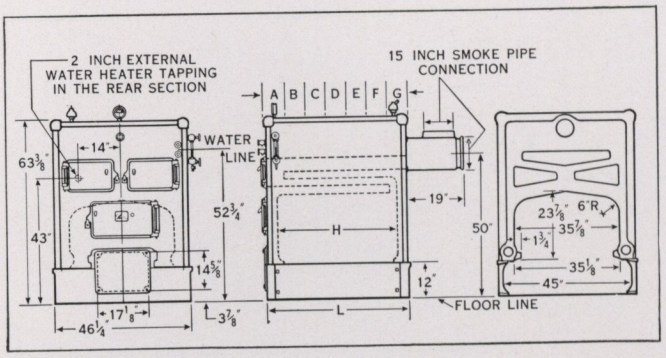
Dimensions No. 2 Crane Sectional Boiler for Oil Burning



No. of Boiler		Outlets No. and Size	Inlets No. and Size	Size of Pop Val.	Dimensions							Assemblage of Sections
Steam	Water				A	B	C	D	E	F	L	
2-6-SO	**2-6-WO**	2–4	2–4	1 ¼	15	10			5	23½	30	FO-MTO-RT
2-7-SO	**2-7-WO**	2–4	2–4	1 ¼	10	20			5	28½	35	FSO-MTO-M-RT
2-8-SO	**2-8-WO**	2–4	2–4	1 ¼	15	20			5	33½	40	FO-MTO-M-RT
2-9-SO	**2-9-WO**	2–4	2–4	1½	10	30			5	38½	45	FSO-MTO-M-M-RT
2-10-SO	**2-10-WO**	2–4	2–4	1½	15	30			5	43½	50	FO-MTO-M-M-RT
2-11-SO	**2-11-WO**	3–4	2–4	1½	10	20	20		5	48½	55	FSO-MTO-M-MT-M-RT
2-12-SO	**2-12-WO**	3–4	2–4	2	15	30	10		5	53½	60	FO-MTO-M-M-MT-RT
2-13-SO	**2-13-WO**	4–4	2–4	2	10	20	20	10	5	58½	65	FSO-MTO-M-MT-M-MT-RT
2-14-SO	**2-14-WO**	4–4	2–4	2	15	20	20	10	5	63½	70	FO-MTO-M-MT-M-MT-RT

*DeLuxe Jackets for Concealed Burners can be secured on Special Order only, and are 32" longer than Dimension "L".
FSO—5" Front Single Section
FO—10" Front Section
M—Intermediate Section
MT—Intermediate Section—Tapped
MTO—Intermediate Section—Tapped—Oil
RT—Rear Section—Tapped

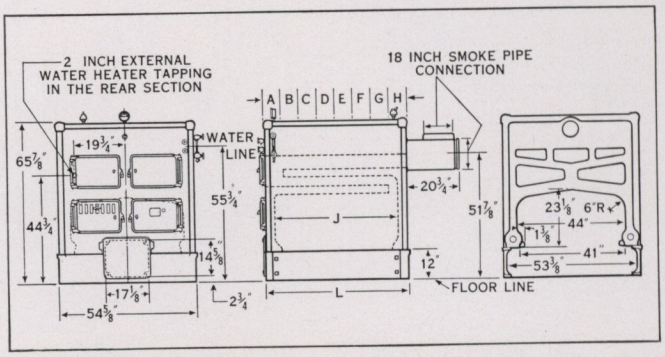
Dimensions No. 3 Crane Sectional Boiler for Oil Burning



No. of Boiler		Outlets No. & Size	Inlets No. & Size	Pop Val. No. & Size	Dimensions									Assemblage of Sections
Steam	Water				A	B	C	D	E	F	G	H	L	
3-8-SO	**3-8-WO**	3-4	2-5	1-2	9	18	12				9	41⅜	48	FO-FMT-M-M-MT-RM-RMT-RO
3-9-SO	**3-9-WO**	4-4	2-5	1-2	9	12	12	12			9	47⅜	54	FO-FMT-M-MT-M-MT-RM-RMT-RO
3-10-SO	**3-10-WO**	4-4	2-5	1-2	9	12	12	12			15	53⅜	60	FO-FMT-M-MT-M-MT-M-RMT-RM-RO
3-11-SO	**3-11-WO**	4-4	2-5	1-2½	9	12	18	18			9	59⅜	66	FO-FMT-M-MT-M-M-MT-M-RM-RMT-RO
3-12-SO	**3-12-WO**	5-4	2-5	1-2½	9	18	12	12	12		9	65⅜	72	FO-FMT-M-M-MT-M-MT-M-MT-RM-RMT-RO
3-13-SO	**3-13-WO**	5-4	2-5	1-2½	9	18	18	12	12		9	71⅜	78	FO-FMT-M-M-MT-M-M-MT-M-MT-RM-RMT-RO
3-14-SO	**3-14-WO**	6-4	2-5	1-2½	9	12	12	18	12	12	9	77⅜	84	FO-FMT-M-MT-M-MT-M-M-MT-M-RMT-RM-RMT-RO
3-15-SO	**3-15-WO**	6-4	2-5	2-2½	9	12	12	18	12	12	15	83⅜	90	FO-FUT-M-MT-M-MT-M-M-MT-M-MT-RM-RMT-RM-RO

FO—Front Section
FMT—Front Intermediate Section—Tapped
FUT—Front Intermediate Uptake Section—Tapped
M—Intermediate Section
MT—Intermediate Section—Tapped
RM—Rear Intermediate Section
RMT—Rear Intermediate Section—Tapped
RO—Rear Section

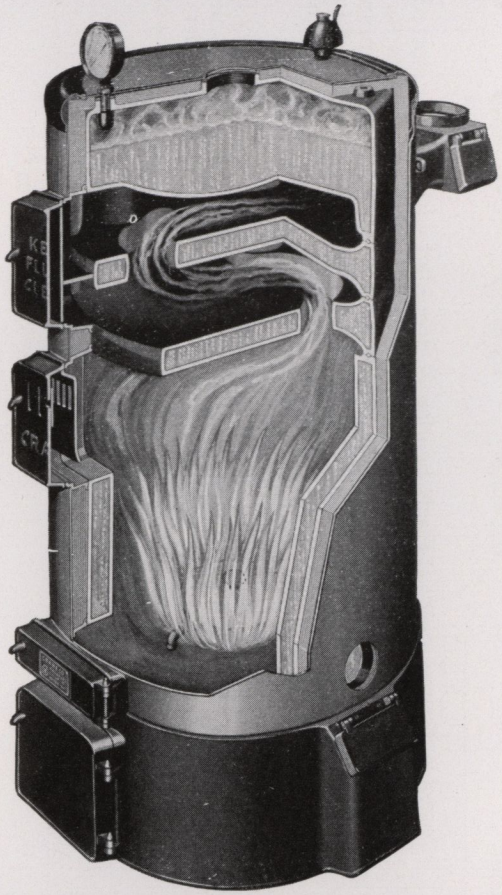
Dimensions No. 4 Crane Sectional Boiler for Oil Burning



No. of Boiler		Outlets No. & Size	Inlets No. & Size	Pop Val. No. & Size	Dimensions										Assemblage of Sections
Steam	Water				A	B	C	D	E	F	G	H	J	L	
4-9-SO	**4-9-WO**	4-4	2-6	1-2½	10½	14	14	14				10½	55⅝	63	FO-FMT-M-MT-M-MT-RM-RMT-RO
4-10-SO	**4-10-WO**	4-4	2-6	1-3	10½	14	14	14				17½	62⅝	70	FO-FMT-M-MT-M-MT-M-RMT-RM-RO
4-11-SO	**4-11-WO**	5-4	2-6	1-3	10½	14	14	14	14			10½	69⅝	77	FO-FMT-M-MT-M-MT-M-MT-RM-RMT-RO
4-12-SO	**4-12-WO**	5-4	2-6	1-3	10½	14	14	14	14			17½	76⅝	84	FO-FMT-M-MT-M-MT-M-MT-RM-RMT-RM-RO
4-13-SO	**4-13-WO**	6-4	2-6	2-2½	10½	14	14	14	14	14		10½	83⅝	91	FO-FMT-M-MT-M-MT-M-MT-M-RMT-RM-RMT-RO
4-14-SO	**4-14-WO**	6-4	2-6	2-2½	10½	14	14	14	14	14		17½	90⅝	98	FO-FMT-M-MT-M-MT-M-MT-M-MT-RM-RMT-RM-RO
4-15-SO	**4-15-WO**	7-4	2-6	2-3	10½	14	14	14	14	14	14	10½	97⅝	105	FO-FUT-M-MT-M-MT-M-MT-M-MT-M-RMT-RM-RMT-RO

FO—Front Section
FMT—Front Intermediate Section—Tapped
FUT—Front Intermediate Uptake Section—Tapped
M—Intermediate Section
MT—Intermediate Section—Tapped
RM—Rear Intermediate Section
RMT—Rear Intermediate Section—Tapped
RO—Rear Section

Cut-away View Crane Round Boiler for Oil Burning



Crane Round Boilers are readily adapted to oil burning with any type of oil burning equipment. All the improvements already described for the coal burning boiler also apply equally to the oil burning type except those that have to do with grates, firing, and automatic regulator control. For these advantages, see page 152—2. (Patented and patents pending.)

18 and 20-Inch Crane Round Boiler For Oil Burning — Performance Data

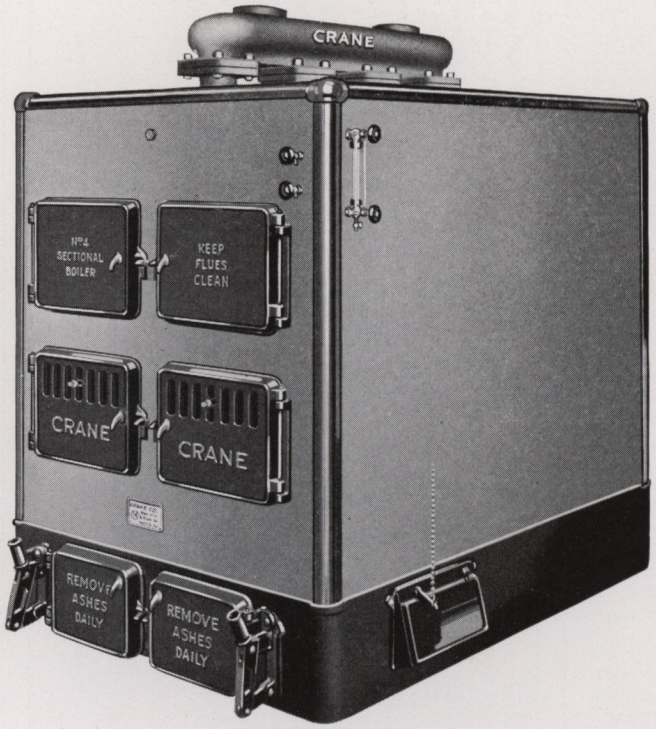
Number of Boiler	Output in Equivalent Direct Radiation Sq. Ft.																			Heating Surface	Stack Size and Hght.
	Steam (240 B.t.u.)	*220*	*240*	*260*	*300*	*320*	*340*	*380*	*400*	*420*	*440*	*480*	*500*	*520*	*560*	*580*	*600*	*640*	*660*	*680*		
	Water (150 B.t.u.)	**352**	**384**	**416**	**480**	**512**	**544**	**608**	**640**	**672**	**704**	**768**	**800**	**832**	**896**	**928**	**960**	**1024**	**1056**	**1088**		
	B.t.u. Per Hr. (100's)	528	576	624	720	768	816	912	960	1008	1056	1152	1200	1248	1344	1392	1440	1536	1584	1632		
SO-185	Heat Trans. Rate	2350	2560	2773	3200	3413	3627	4053	4267	4480	4693	5120	5333	5547	5973						22.5	8x8
WO-185	Min. Burner Cap'ty.	3.7	3.9	4.2	4.9	5.2	5.6	6.3	6.7	7.1	7.4	8.2	8.6	9.0	9.7						Sq. ft.	30 ft.
SO-186	Heat Trans. Rate	1965	2140	2320	2677	2855	3033	3390	3569	3747	3926	4283	4461	4639	4996	5175	5353	5710	5888	6067	26.9	8x8
WO-186	Min. Burner Cap'ty.	3.6	3.7	4.0	4.7	5.1	5.4	6.1	6.4	6.7	7.1	7.8	8.1	8.5	9.2	9.5	10.0	10.7	11.1	11.4	Sq. ft.	30 ft.
SO-205	Heat Trans. Rate	2200	2207	2391	2759	2943	3126	3494	3678	3862	4046	4414	4598	4782	5149	5333	5517	5885	6069		26.1	8x8
WO-205	Min. Burner Cap'ty.	3.6	3.8	4.1	4.8	5.2	5.5	6.2	6.6	7.0	7.3	8.1	8.4	8.8	9.6	10.0	10.3	11.1	11.5		Sq. ft.	30 ft.
SO-206	Heat Trans. Rate	1668	1815	1968	2271	2423	2574	2877	3028	3180	3331	3634	3785	3937	4240	4391	4543	4845	4997	5148	31.7	8x8
WO-206	Min. Burner Cap'ty.	3.5	3.6	3.8	4.6	5.0	5.3	6.0	6.3	6.6	6.9	7.7	8.0	8.4	9.1	9.4	9.8	10.5	10.8	11.2	Sq. ft.	30 ft.

22 and 24-Inch Crane Round Boiler For Oil Burning — Performance Data

Number of Boiler	Output in Equivalent Direct Radiation Sq. Ft.																			Heating Surface	Stack Size and Hght.
	Steam (240 B.t.u.)	*220*	*270*	*320*	*370*	*420*	*470*	*520*	*570*	*620*	*670*	*720*	*770*	*820*	*870*	*920*	*970*	*1020*		
	Water (150 B.t.u.)	**352**	**432**	**512**	**592**	**672**	**752**	**832**	**912**	**992**	**1072**	**1152**	**1232**	**1312**	**1392**	**1472**	**1552**	**1632**		
	B.t.u. Per Hour (100's)	528	648	768	888	1008	1128	1248	1368	1488	1608	1728	1848	1968	2088	2208	2328	2448		
SO-225	Heat Transmission Rate	1720	2111	2502	2893	3283	3674	4065	4456	4847	5238	5629	6020						30.7	8x12
WO-225	Minimum Burner Capacity	3.5	4.3	5.1	6.0	6.9	7.8	8.6	9.6	10.5	11.4	12.4	13.4						Sq. ft.	30 ft.
SO-226	Heat Transmission Rate	1412	1540	2053	2374	2695	3016	3337	3658	3979	4230	4620	4941	5262	5583	5904			37.4	8x12
WO-226	Minimum Burner Capacity	3.4	4.2	4.9	5.8	6.5	7.4	8.2	9.1	10.0	10.8	12.1	12.6	13.5	14.4	15.5			Sq. ft.	30 ft.
SO-245	Heat Transmission Rate	1560	1912	2265	2619	2973	3327	3681	4006	4389	4743	5097	5451	5805	6159				33.9	8x12
WO-245	Minimum Burner Capacity	3.4	4.2	5.0	5.9	6.8	7.7	8.5	9.5	10.4	11.3	12.3	13.2	14.2	15.1				Sq. ft.	30 ft.
SO-246	Heat Transmission Rate	1285	1400	1869	2161	2453	2745	3036	3304	3620	3912	4204	4496	4788	5080	5372	5664	5956	41.1	8x12
WO-246	Minimum Burner Capacity	3.3	4.1	4.8	5.7	6.4	7.3	8.1	9.0	9.9	10.7	12.0	12.5	13.4	14.3	15.3	16.2	17.2	Sq. ft.	30 ft.

Select a boiler at the transmission rate desired for the total of the actual radiation load plus piping load plus "pick-up" load.
Heat transmission rate = B.t.u. transferred per hour per sq. ft. of heating surface.
Minimum Burner Capacity = Minimum pounds of oil burned per hour.

Cast Iron Headers for Sectional Boilers



Simplified piping and speedy completion of assembly are now assured by a line of cast iron headers for the Crane Sectional Boilers. Headers have the same number and size of inlets as the boiler, and outlets as listed below:

Header

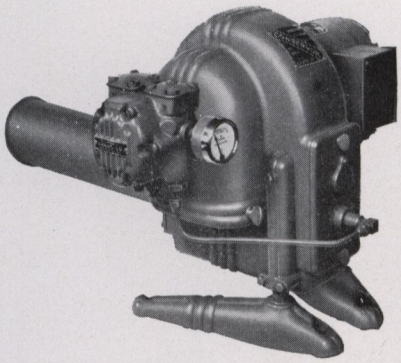
Boiler	No. and Size of Flanged Inlets	No. and Size of Screwed Outlets	Center to Center of Outlets
1-10-S or W	3–3″	2–4″	12″
2-11-S or W	3–4″	2–5″	20″
3-7-S or W	3–4″	2–5″	12″
3-8-S or W	3–4″	2–5″	15″
3-9-S or W	4–4″	2–5″	24″
3-10-S or W	4–4″	2–5″	24″
3-11-S or W	4–4″	2–5″	33″
3-12-S or W	5–4″	3–5″	12″ and 27″
3-13-S or W	5–4″	3–5″	12″ and 33″
4-9-S or W	4–4″	2–5″	28″
4-10-S or W	4–4″	2–5″	28″



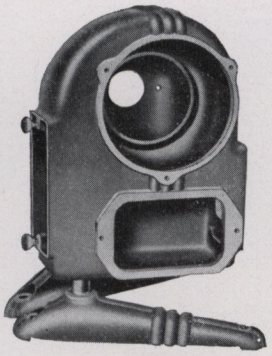
Each header is provided with square slotted flanged inlets which are bolted to square flanges for connection with nipples to the boiler outlet tappings. The slotted flanged inlets permit flexibility and variations in section assembly, insuring precise alignment and tight joints.

One end of the header is tapped horizontally for steam boilers employing Hartford loop or equalizer connections. For 48″ lengths or under, headers are one piece; longer than 48″, two sections (flange connected) simplify assembly.

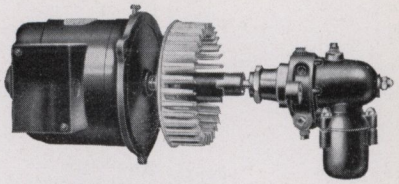
CRANE CONSERVOIL BURNER



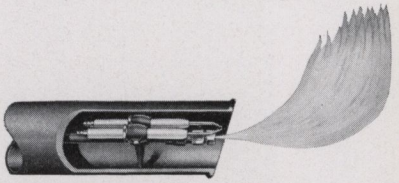
Any heating system can be quickly converted into an oil burning system with a *Conservoil* Burner. This is the same compact unit that makes the Crane Sustained Heat Boiler Unit so efficient—so economical. The *Conservoil* Burner has been engineered to convert oil into heat most efficiently, most satisfactorily with minimum noise and minimum waste. It is ideal for all conversion jobs because of its small size which permits its use even where space is limited. Its extremely high efficiency assures maximum heat at minimum cost. With a *Conservoil* Burner the trouble of changing a heating system is reduced to a minimum and the whole simple job is quickly and easily performed.



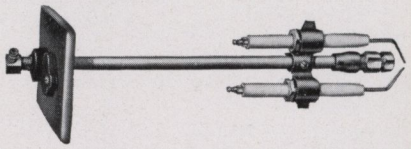
A single casting houses the *Conservoil* Burner, assuring perfect alignment and interchangeability of all parts.



Here is the only moving part in the *Conservoil* Burner. The pump and fan are on one shaft, accurately balanced, silent in operation.



Controlled air delivery and air mixture without combustion noise—highly efficient, yet extremely simple.



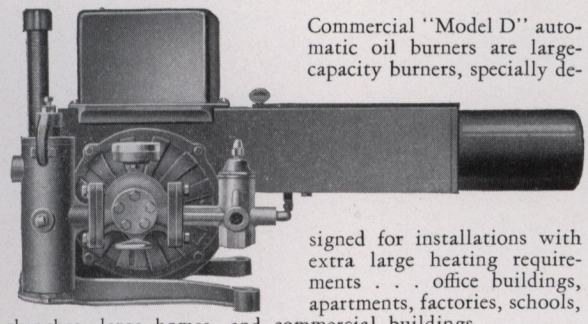
A new efficiency in electrodes—no danger of cracked jackets—points cannot foul as they are clear of the oil nozzle.

STANDARD SPECIFICATIONS

Specification of:	Model HC 1	Model HC 2	Model HF 1	Model HF 2
Motor	S.P.—110 V. 60 Cy. (Standard)	S.P.—110 V. 60 Cy. (Standard)	S.P.—110 V. 60 Cy. (Standard)	S.P.—110 V. 60 Cy. (Standard)
Horse Power	1/8	1/6	1/8	1/6
Motor Speed	1750	1750	1750	1750
Pump, strainer and Valve Unit	Combination pump valve and strainer unit, type "T"	Combination pump valve and strainer unit, type "T"	Combination pump valve and strainer unit, type "T"	Combination pump valve and strainer unit, type "T"
Fan	3 x 6" cast aluminum	4 x 6" cast aluminum	3 x 6" cast aluminum	4 x 6" cast aluminum
Ignition	Electric (Constant)	Electric (Constant)	Electric (Constant)	Electric (Constant)
Transformer	Jefferson	Jefferson	Jefferson	Jefferson
Housing	Cast Iron	Cast Iron	Cast iron	Cast iron
Mounting	Adjustable legs	Adjustable legs	Insulated Flange Plate	Insulated Flange Plate
Coupling	Lovejoy	Lovejoy	Lovejoy	Lovejoy
Blower Tube	Cast Iron 4" O.D. x 15" long	Cast iron 5" O.D. x 15" long	Cast iron 4" O.D. x 3" long	Cast iron 5" O.D. x 5" long
Nozzle	1¼ to 3½ gal. per hour	3 to 4½ gal. per hour	1¼ to 3 gal. per hour	3 to 4½ gal. per hour
Stackswitch and Thermostat	Crane high or low voltage	Crane high or low voltage	Crane high or low voltage	Crane high or low voltage
Limit Control	Any listed control (H.V.)	Any listed control (H.V.)	Any listed control (H.V.)	Any listed control (H.V.)
Pressure	75 to 125 lbs.	75 to 125 lbs.	75 to 125 lbs.	75 to 125 lbs.
Fuel Capacity	3½ gal. per hour	4½ gal. per hour	3 gal. per hour	4½ gal. per hour

ODD CYCLE SPECIFICATIONS

Cycle	Normal Motor Speed	HC 1 Oil Cap. GPH	HC 2 Oil Cap. GPH	HF 1 Oil Cap. GPH	HF 2 Oil Cap. GPH
60	1750	3½	4½	3½	4½
50	1460	2¾	3¾	2¾	3¾
40	1165	2	3	2	3
30	1750	3½	4½	3½	4½
25	1460	2¾	3¾	2¾	3¾



Commercial "Model D" automatic oil burners are large-capacity burners, specially designed for installations with extra large heating requirements . . . office buildings, apartments, factories, schools, churches, large homes, and commercial buildings. Accurate records show actual fuel savings, not to mention the added comfort and convenience, and in many instances, the complete elimination of a fireman or furnace attendant.

COMMERCIAL "MODEL D" OIL BURNERS

STANDARD SPECIFICATIONS

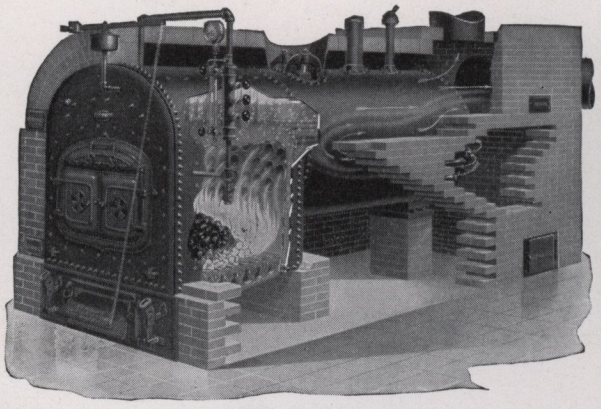
Specification of:	Model 2D	Model 3D
Motor	Special Oil Burner Type	Special Oil Burner Type
Horse Power	¼	½
Motor Speed	1750 R.P.M.	1750 R.P.M.
Pump	Tuthill	Tuthill
Ignition	Dual Electrode Assembly	Dual Electrode Assembly
Transformer	Dual Heavy Duty—20,000 V.	Dual Heavy Duty—20,000 V.
Fan	3¾ x 7½ Aluminum	4½ x 9 Aluminum
Housing	Grey Iron	Grey Iron
Coupling	Lovejoy	Lovejoy
Strainer	80 Mesh Bronze and Monel	80 Mesh Bronze and Monel
Pressure Valve	Type FU	Type FU
Blower Tube	Grey Iron 5½" O.D. x 8 or 12" L.	Grey Iron 7" O.D. x 10" L.
Nozzle	5 to 10 Gal. per Hour	10 to 35 Gal. per Hour
Controls	Crane (3 controls)	Crane (3 controls)
Operating Pressure	75 to 150 lbs.	75 to 150 Lbs.
Maximum Oil Capacity	10 Gal. per Hour	35 Gal. per Hour

Note: Standard electrical specification is 110 volts, 60 cycles. All normal odd voltages and frequencies, or 110 or 220 volt D.C., available on special order at additional cost. 32 volt D.C. not available.

Consult your Crane Branch or Crane Wholesaler for prices

Kewanee Fire Box Boilers

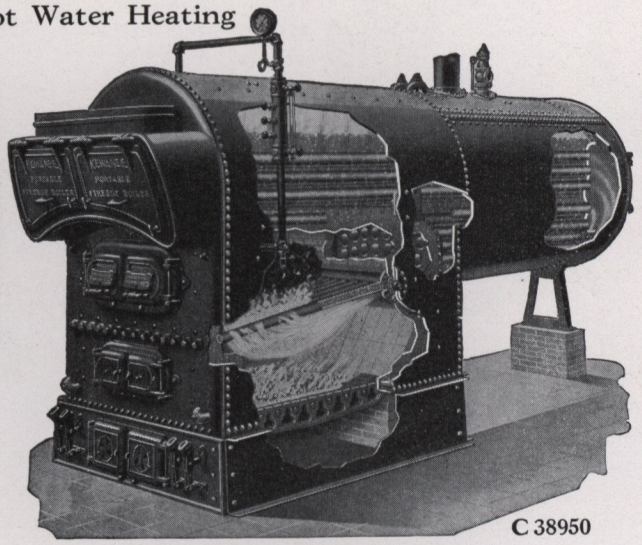
For Steam and Hot Water Heating



C 38930

0 to 20 Series (Riveted) Fire Box Boilers

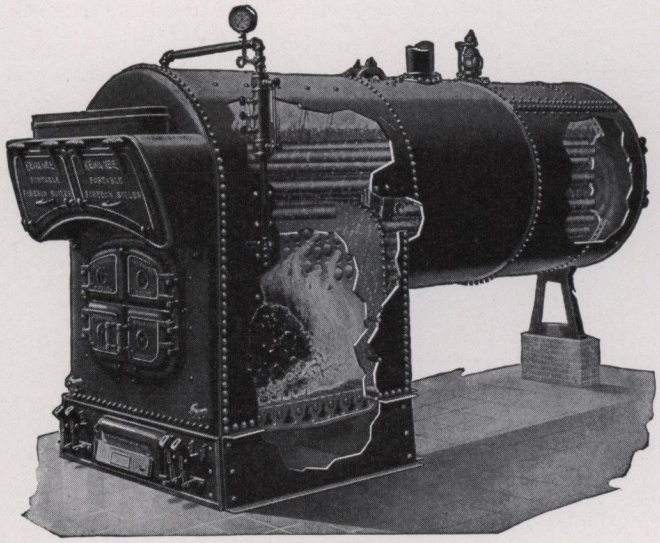
No.	Capacity Steam Sq. Ft.	Shipping Weight Pounds
0	510	1,900
1	690	2,400
2	940	2,700
3	1,240	2,900
4	1,380	3,300
5	1,800	3,500
6	2,200	3,900
8	3,500	5,200
9	4,000	5,700
10	4,500	6,200
11	5,000	6,700
12	6,000	7,800
13	7,000	8,800
14	8,500	10,300
15	10,000	11,800
17	12,500	14,300
18	15,000	16,800
19	17,500	19,400
20	20,000	21,900



C 38950

376 to 390 Series Portable Smokeless (Riveted) Fire Box Boilers

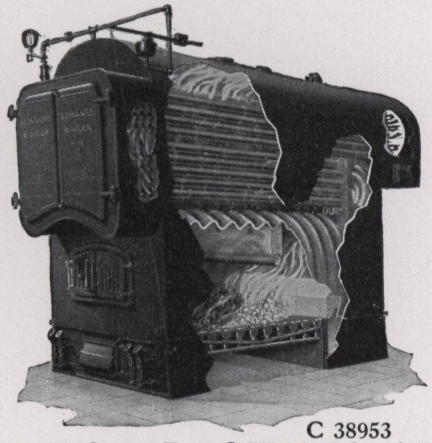
No.	Capacity Steam Sq. Ft.	Shipping Weight Pounds
376	3,500	6,800
377	4,000	7,500
378	4,500	8,100
379	5,000	8,800
380	6,000	10,000
381	7,000	11,100
382	8,500	13,600
383	10,000	15,300
384	12,500	18,000
385	15,000	20,500
386	17,500	22,900
387	20,000	25,100
388	25,000	29,500
389	30,000	33,600
390	35,000	37,500



C 38952

480 to 490 Series Portable Up-Draft (Riveted) Fire Box Boilers

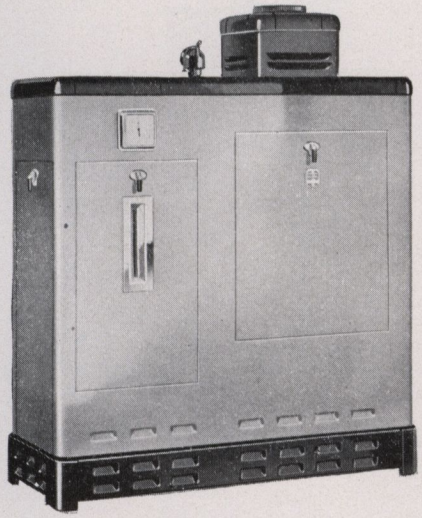
No.	Capacity Steam Sq. Ft.	Shipping Weight Pounds
480	6,000	10,200
481	7,000	11,400
482	8,500	13,300
483	10,000	14,800
484	12,500	17,300
485	15,000	19,700
486	17,500	22,000
487	20,000	24,200
488	25,000	28,400
489	30,000	32,300
490	35,000	36,100



C 38953

774 to 790 Series, Type C (Welded) Smokeless Fire Box Boilers

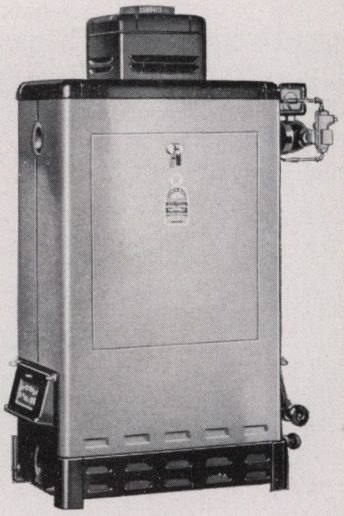
No.	Capacity Steam Sq. Ft.	Shipping Weight Pounds
774	2,600	3,900
775	3,000	4,400
776	3,500	5,000
777	4,000	5,500
778	4,500	6,000
779	5,000	6,500
780	6,000	7,500
781	7,000	8,400
782	8,500	9,700
783	10,000	11,000
784	12,500	12,900
785	15,000	14,900
786	17,500	16,600
787	20,000	18,400
788	25,000	22,000
789	30,000	25,200
790	35,000	28,400



Series 25 DeLuxe

BASMOR GAS FIRED BOILER

THE market for Crane Basmor Gas Fired Boiler sales is constantly expanding. The extension of Natural Gas pipe lines and steady reduction of gas cost results in a widening market for gas heating. The carefree convenience of a gas fired heating plant cannot be equalled with any other fuel. A Crane Basmor Gas Fired installation entirely eliminates the drudgery demanded by other fuels and relieves the necessity of constant attention to the heating plant; for a Crane Basmor Gas Fired Boiler automatically maintains any desired temperature.



Series 25 Standard

THE CRANE BASMOR GAS FIRED BOILER LINE

CRANE Basmor Gas Fired Boilers are modern in design and engineered to combine simplicity of operation with economy in performance. Available for steam, vapor and hot water heating systems and for large volume hot water supply for every domestic, commercial and industrial requirement. Completely controlled, Basmor operation is safe and trouble-free. The patented Hilo Jet Burner used in all Crane Basmor Boilers is of the improved Bunsen type. It requires no adjustment, is immune to backfiring and is especially suited for operation with throttle control, operating quietly and igniting quickly and smoothly. The simple, highly perfected Basmor Gas Actuated Safe-side Controls are designed to protect against every emergency—even against the failure of the controls themselves. If one control should fail in its appointed function, the burner flame is immediately extinguished and the gas supply to the burner shut off. Electric current is required for room thermostat control only.

The high degree of efficiency obtained with a Crane Basmor Gas Fired Boiler is due largely to the design and quality of the sections. The Crane Basmor sections are made of cast grey iron of special composition, resulting in a smooth close-grained structure of maximum toughness. They are strengthened with lugs cast crosswise within the section at points of greatest stress, and are so designed as to insure rapid, free circulation. Concave interior construction, free from angles, eliminates hot spots and incrustation. Fins cast on the exterior side are so arranged that heat traveling between sections attains a spiral or swirling motion that comes in moving contact with every square inch of heating surface, which results in unsurpassed ability to absorb liberated heat.

SERIES 20 BOILER

The Crane Basmor Boiler, Series 20, available with from 3 to 7 sections, is designed for hot water systems only. Complete with automatic control it is ideal for smaller homes. The boiler is enclosed in an asbestos-insulated jacket, finished in two harmonizing shades of green. All controls are hidden from view within the housing. Complete access to all controls and to the sections is possible by means of removable panels. The housing itself is in sections, and can be installed after all controls and piping are placed in position, thus protecting it from damage during installation.

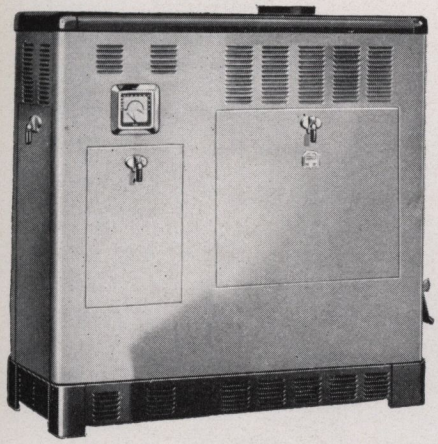
SERIES 25 BOILER

The Crane Basmor Series 25 Boiler, built with from 3 to 11 sections is suitable for steam, vapor or hot water heating systems. Completely insulated with multiple air cell asbestos, it is available in two models, DeLuxe and Standard. The difference being in the housing only. The Standard Boiler housing is colorful and good-looking, assuring a neat installation. The DeLuxe housing completely encloses all controls, yet easy access to them is provided through convenient removable panels. This ultra-attractive Basmor radiates eye appeal and fits perfectly into todays modern homes.

SERIES 40 BOILER

Crane Basmor Boiler, Series 40, built with from 6 to 35 sections is suitable for steam, vapor or hot water heating systems, and designed for larger homes and large scale heating requirements. It is perfected in every detail for efficient, automatic, trouble free and safe operation. Installations requiring larger boilers can be handled excellently and efficiently by tandem or battery installation of two or more boilers. This type of hook-up can be controlled like a single unit.

The attractive two-tone green enamel finish housing of rust-resisting metal is equipped with front and rear removable panels providing ready access between sections for cleaning. The entire housing can be assembled or removed without disturbing the piping connections. Multiple air-cell asbestos insulation completely surrounds the boiler being augmented by the inert air space on all sides obtained by the special ribbed construction.

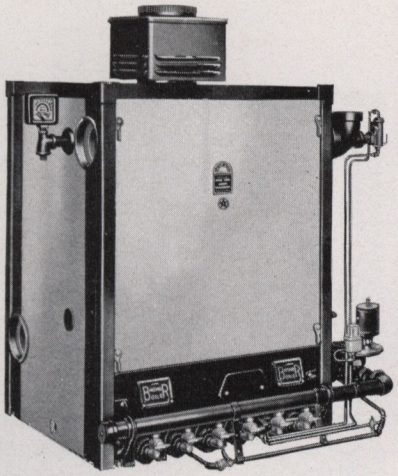


Series 20

BASMOR GAS FIRED BOILER

PERFECT FUEL—PERFECT HEAT

PERFECTION in radiator heating is reached when the system is served by a Crane Basmor Gas Fired Boiler. Being completely automatic in operation it provides all the conveniences of radiator heat plus closer control and more uniform temperatures without thought or effort on the part of the householder. With a Crane Basmor Boiler carefree heat, the ultimate in heating perfection is attained.



Series 40

EQUIPMENT

BASMOR STANDARD TRIM
- Enameled Exterior Jacket
- Aircell Asbestos Insulation.
- Draft Diverter.
- Drain Cocks.
- Manifold and Fittings.
- Pilot Line and Control Tubing.
- Manual Gas Shut-off Valve.
- Gas Pressure Regulator.
- Auxiliary Pilot Assembly (Series 40 only).

STEAM—RCS TRIM

Requires only a room thermostat for complete automatic room temperature regulation.

Equipment includes:
- Basmor Standard Trim.
- Basmor No. 176 Diaphragm Gas Valve with Throttling Flame Regulator.
- Basmor Electric Control Unit with Recycling Manual Control Switch (M-H V-116).
- Basmor Baltimore Automatic Shut-off (Thermostatic Pilot).
- Basmor No. 150 Steam Pressure Regulator and Low Water Cut-off Dual Control.
- Retard Steam Gauge—Steam Pop Valve.
- Water Gauge and Try Cocks.

MCS TRIM—For Steam and Vapor Systems. Provides an automatic boiler equipped to maintain any desired steam pressure.

Equipment includes: Same as RCS except less Basmor Electric Control Unit.

WIM TRIM—For domestic Hot Water Supply Systems.

Indirect Method—For use with Indirect Heaters or tanks equipped with heat exchanger coils. Provides constant hot water supply automatically.

Equipment includes:
- Basmor Standard Trim.
- Basmor 176 Diaphragm Valve with Throttling Flame Regulator.
- Basmor Baltimore Automatic Shut-off (Thermostatic Pilot).
- Basmor 150 Low Water Cut-off and Steam Pressure Regulator.
- Retard Steam Gauge—Steam Pop Valve.
- Water Gauge.
- Try Cocks.
- Tank Thermometer.
- Basmor Robertshaw Reverse Action Limit Control (Tank Thermostat).
- Piping to Tank Thermostat not furnished.

WATER—RCW TRIM

Requires only a room thermostat for complete automatic room temperature regulation.

Equipment includes:
- Basmor Standard Trim.
- Basmor No. 175 Diaphragm Gas Valve.
- Basmor Electric Control Unit with Recycling Manual Control-Switch (M-H V-116).
- Basmor Baltimore Automatic Shut-off (Thermostatic Pilot).
- Basmor Robertshaw Reverse Action Limit Control.
- Combination Thermometer and Altitude Gauge.

MCW TRIM—For Hot Water Systems. Provides an automatic boiler equipped to maintain any desired water temperature.

Equipment includes: Same as RCW except less Basmor Electric Control Unit.

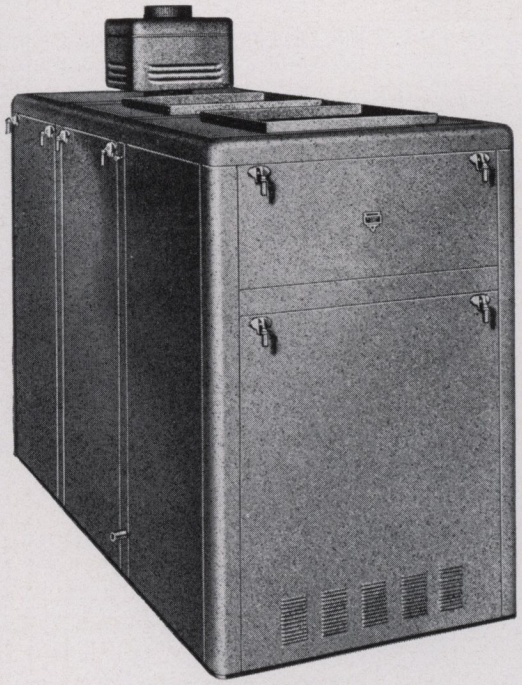
COMBINED RATING TABLE

Basmor Boiler Type "S" for Steam or Vapor House Heating					Basmor Boiler Type "W" for Hot-Water House Heating			
Boiler Size	AGA Rating, Sq. Ft.	Actual C. I. Radiation Boiler H'dles Sq. Ft.	Ship. Wt., Appr. Lbs.	AGA Rating Output at Nozzle, BTU	Boiler Size	AGA Rating, Sq. Ft.	Actual C. I. Radiation Boiler H'dles Sq. Ft.	Ship. Wt., Appr. Lbs.
SERIES 20 BASMOR BOILER								
				42,240	20-W-3	280	180	455
				63,360	20-W-4	420	270	525
				84,480	20-W-5	560	360	590
				105,600	20-W-6	700	450	660
				126,720	20-W-7	840	545	730
SERIES 25 BASMOR BOILER								
25-S-3	220	141	610	52,800	25-W-3	350	225	575
25-S-4	330	212	745	79,200	25-W-4	525	337	665
25-S-5	440	282	845	105,600	25-W-5	700	449	795
25-S-6	550	353	960	132,000	25-W-6	880	567	930
25-S-7	660	423	1075	158,400	25-W-7	1055	683	1080
25-S-8	770	494	1275	184,800	25-W-8	1230	800	1180
25-S-9	880	567	1370	211,200	25-W-9	1405	919	1310
25-S-10	990	638	1495	237,600	25-W-10	1585	1041	1465
25-S-11	1100	712	1625	264,000	25-W-11	1760	1162	1545
SERIES 40 BASMOR BOILER								
40-S-6	1170	758	1650	280,000	40-W-6	1870	1240	1587
40-S-7	1400	915	1860	336,000	40-W-7	2240	1500	1830
40-S-8	1630	1070	2070	392,000	40-W-8	2610	1773	2040
40-S-9	1870	1240	2280	448,000	40-W-9	2990	2062	2250
40-S-10	2100	1405	2705	504,000	40-W-10	3360	2329	2560
40-S-11	2330	1568	2896	560,000	40-W-11	3730	2600	2775
40-S-12	2570	1746	3075	616,000	40-W-12	4110	2880	2975
40-S-13	2800	1922	3355	672,000	40-W-13	4480	3151	3185
40-S-14	3030	2094	3655	728,000	40-W-14	4850	3430	3495
40-S-15	3260	2256	3865	784,000	40-W-15	5220	3710	3820
40-S-16	3500	2433	4075	840,000	40-W-16	5600	4000	4010
40-S-17	3730	2600	4285	896,000	40-W-17	5970	4265	4220
40-S-18	3960	2766	4490	952,000	40-W-18	6340	4530	4425
40-S-19	4200	2944	4718	1,008,000	40-W-19	6720	4800	4653
40-S-20	4430	3116	5040	1,064,000	40-W-20	7090	5065	4975
40-S-21	4660	3289	5250	1,120,000	40-W-21	7460	5330	5185
40-S-22	4900	3466	5460	1,176,000	40-W-22	7840	5600	5395
40-S-23	5130	3641	5670	1,232,000	40-W-23	8210	5865	5605
40-S-24	5360	3815	6110	1,288,000	40-W-24	8580	6130	6045
40-S-25	5600	4000	6317	1,344,000	40-W-25	8960	6400	6252
40-S-26	5830	4165	6530	1,400,000	40-W-26	9330	6665	6465
40-S-27	6060	4330	6740	1,456,000	40-W-27	9700	6930	6675
40-S-28	6300	4500	7025	1,512,000	40-W-28	10080	7200	6960
40-S-29	6530	4665	7285	1,568,000	40-W-29	10450	7465	7220
40-S-30	6760	4830	7495	1,624,000	40-W-30	10820	7730	7430
40-S-31	7000	5000	7860	1,680,000	40-W-31	11200	8000	7795
40-S-32	7230	5165	8070	1,736,000	40-W-32	11570	8265	8005
40-S-33	7460	5330	8280	1,792,000	40-W-33	11940	8530	8215
40-S-34	7700	5500	8490	1,848,000	40-W-34	12320	8800	8425
40-S-35	7930	5665	8700	1,904,000	40-W-35	12690	9065	8635

BASMOR BOILER—GENERAL DIMENSIONS AND DATA TABLE

Boiler Size (No. of Sections)	Input B.T.U. or Burner Rating	Boiler Output Available B.T.U.	Number of Auxiliary Pilots	Size of Gas Valve	Size of Gas Pressure Regulator	Size of Manual Gas Shut-Off Valve	Size of Pop Safety Valve—Type S and WIM	Number and Size of Main Tappings		Floor to Center Line of Tappings		Number and Size of Intermediate Tappings		Floor to Face of Intermediate Flow Tappings	Floor to Center Line of Intermediate Return Tappings	Size of Gas Connection	Floor to Water Line—Type S and WIM	Number and Size of Flue Connections	Width of Boiler Only	Depth of Boiler Only	Width of Boiler Over Controls	Depth of Boiler Over Controls	Height of Boiler Only	Height of Boiler Over Draft Diverter	Meter Required Capacity in Cubic Feet	
								Flow	Return	Flow	Return	Flow	Return												500 B. T. U. Gas	1000 B. T. U. Gas
				In.	In.	In.	In.	No. In.	No. In.	In.	In.	No. In.	No. In.	In.	In.	In.	In.		In.	In.	In.	In.	In.	In.		
20—3	52,800	42,240	None	1	¾	1		2—2	2—2	28⅞	3	None	None			¾		1—4	13¾	15¼	28¼	15¼		38 13/16	106	53
20—4	79,200	63,360	None	1	¾	1		2—2	2—2	28⅞	3	None	None			¾		1—5	17½	15¼	32	15¼		38 13/16	160	80
20—5	105,600	84,480	None	1	1	1		2—2	2—2	28⅞	3	None	None			1		1—6	21¼	15¼	35⅜	15¼		38 13/16	212	106
20—6	132,000	105,600	None	1	1	1		2—2	2—2	28⅞	3	None	None			1		1—6	25	15¼	39¼	15¼		38 13/16	264	132
20—7	158,000	126,400	None	1	1	1		2—2	2—2	28⅞	3	None	None			1		1—7	28¾	15¼	43¼	15¼		38 13/16	316	158
25—3	66,000	52,800	None	1	¾	1	1	2—2½	2—2½	36 3/16	3 5/16	None	None			¾	29 3/16	1—4	13¾	16⅜	27½	26½	42	50⅛	132	66
25—4	99,000	79,200	None	1	¾	1	1	2—2½	2—2½	36 3/16	3 5/16	None	None			¾	29 3/16	1—5	17½	16⅜	31¼	26½	42	51¼	198	99
25—5	132,000	105,600	None	1	1	1	1	2—2½	2—2½	36 3/16	3 5/16	None	None			1	29 3/16	1—5	21¼	16⅜	35	26½	42	51¼	264	132
25—6	165,000	132,000	None	1	1	1	1	2—2½	2—2½	36 3/16	3 5/16	None	None			1	29 3/16	1—6	25	16⅜	38¾	26½	42	51¼	330	165
25—7	198,000	158,400	None	1	1	1	1	2—2½	2—2½	36 3/16	3 5/16	None	None			1	29 3/16	1—6	28¾	16⅜	42½	26½	42	51¼	396	198
25—8	231,000	184,800	None	1	1¼	1	1	2—2½	2—2½	36 3/16	3 5/16	None	None			1¼	29 3/16	1—7	32½	16⅜	46¼	26½	42	52⅜	462	231
25—9	264,000	211,200	None	1¼	1¼	1¼	1	2—2½	2—2½	36 3/16	3 5/16	None	None			1¼	29 3/16	1—8	36¼	16⅜	50	26½	42	52⅞	528	264
25—10	297,000	237,600	None	1¼	1¼	1¼	1	2—2½	2—2½	36 3/16	3 5/16	None	None			1¼	29 3/16	1—8	40	16⅜	53¾	26½	42	52⅞	594	297
25—11	330,000	264,000	None	1¼	1½	1¼	1	2—2½	2—2½	36 3/16	3 5/16	None	None			1½	29 3/16	1—8	43¾	16⅜	57½	26½	42	52⅞	660	330
40—6	350,000	280,000	1	1½	1½	1¼	1¼	2—4	2—4	38¾	12½	None	None			1½	31	1—8	30	28½	50	33	45¾	57⅞	700	350
40—7	420,000	336,000	1	1½	1½	1½	1¼	2—4	2—4	38¾	12½	None	None			1½	31	1—8	34⅜	28½	54⅜	33	45¾	57⅞	840	420
40—8	490,000	392,000	1	2	2	1½	1½	2—4	2—4	38¾	12½	None	None			2	31	1—9	38¾	28½	58¾	33	45¾	56½	980	490
40—9	560,000	448,000	1	2	2	1½	1½	2—4	2—4	38¾	12½	None	None			2	31	1—10	43⅛	28½	63⅛	33	45¾	56½	1120	560
40—10	630,000	504,000	2	2	2	2	2	2—4	2—4	38¾	12½	1—3	1—3	42⅜	12½	2	31	2—7	49⅛	28½	69⅛	33	45¾	57⅞	1260	630
40—11	700,000	560,000	2	2	2½	2	2	2—4	2—4	38¾	12½	1—3	1—3	42⅜	12½	2½	31	2—8	53½	28½	73½	33	45¾	57⅞	1400	700
40—12	770,000	616,000	2	2	2½	2	2	2—4	2—4	38¾	12½	1—3	1—3	42⅜	12½	2½	31	2—8	57⅞	28½	77⅞	33	45¾	57⅞	1540	770
40—13	840,000	672,000	2	2	2½	2	2	2—4	2—4	38¾	12½	1—3	1—3	42⅜	12½	2½	31	2—8	62¼	28½	82¼	33	45¾	57⅞	1680	840
40—14	910,000	728,000	3	2	2½	2	2	2—4	2—4	38¾	12½	2—3	2—3	42⅜	12½	2½	31	3—8	68¼	28½	88¼	33	45¾	57⅝	1820	910
40—15	980,000	784,000	3	2	2½	2	2	2—4	2—4	38¾	12½	2—3	2—3	42⅜	12½	2½	31	3—8	72⅝	28½	92⅝	33	45¾	57⅝	1960	980
40—16	1,050,000	840,000	3	2	2½	2	2	2—4	2—4	38¾	12½	2—3	2—3	42⅜	12½	2½	31	3—8	77	28½	97	33	45¾	57⅝	2100	1050
40—17	1,120,000	896,000	3	2½	2½	2	2½	2—4	2—4	38¾	12½	2—3	2—3	42⅜	12½	2½	31	3—8	81⅜	28½	101⅜	33	45¾	57⅝	2240	1120
40—18	1,190,000	952,000	3	2½	2½	2	2½	2—4	2—4	38¾	12½	2—3	2—3	42⅜	12½	2½	31	3—8	85¾	28½	105¾	33	45¾	57⅝	2380	1190
40—19	1,260,000	1,008,000	3	2½	2½	2	2½	2—4	2—4	38¾	12½	2—3	2—3	42⅜	12½	2½	31	3—8	90⅛	28½	110⅛	33	45¾	57⅝	2520	1260
40—20	1,330,000	1,064,000	4	2½	2½	2	2½	2—4	2—4	38¾	12½	3—3	3—3	42⅜	12½	2½	31	4—8	96⅛	28½	116⅛	33	45¾	57⅝	2660	1330
40—21	1,400,000	1,120,000	4	2½	2½	2	2½	2—4	2—4	38¾	12½	3—3	3—3	42⅜	12½	2½	31	4—8	100½	28½	120½	33	45¾	57⅝	2800	1400
40—22	1,470,000	1,176,000	4	2½	2½	2	2½	2—4	2—4	38¾	12½	3—3	3—3	42⅜	12½	2½	31	4—8	104⅞	28½	124⅞	33	45¾	57⅝	2940	1470
40—23	1,540,000	1,232,000	4	2½	2½	2	2½	2—4	2—4	38¾	12½	3—3	3—3	42⅜	12½	2½	31	4—8	109¼	28½	129¼	33	45¾	57⅝	3080	1540
40—24	1,610,000	1,288,000	5	2½	2½	2½	2½	2—4	2—4	38¾	12½	4—3	4—3	42⅜	12½	2½	31	5—8	115¼	28½	135¼	33	45¾	57⅝	3220	1610
40—25	1,680,000	1,344,000	5	2½	2½	2½	2½	2—4	2—4	38¾	12½	4—3	4—3	42⅜	12½	2½	31	5—8	119⅝	28½	139⅝	33	45¾	57⅝	3360	1680
40—26	1,750,000	1,400,000	5	2½	2½	2½	2½	2—4	2—4	38¾	12½	4—3	4—3	42⅜	12½	2½	31	5—8	124	28½	144	33	45¾	57⅝	3500	1750
40—27	1,820,000	1,456,000	5	2½	2½	2½	3	2—4	2—4	38¾	12½	4—3	4—3	42⅜	12½	2½	31	5—8	128⅜	28½	148⅜	33	45¾	57⅝	3640	1820
40—28	1,890,000	1,512,000	5	2½	2½	2½	3	2—4	2—4	38¾	12½	4—3	4—3	42⅜	12½	2½	31	5—8	132¾	28½	152¾	33	45¾	57⅝	3780	1890
40—29	1,960,000	1,568,000	5	3	2½	2½	3	2—4	2—4	38¾	12½	4—3	4—3	42⅜	12½	2½	31	5—8	137⅛	28½	157⅛	33	45¾	57⅝	3920	1960
40—30	2,030,000	1,624,000	5	3	2½	2½	3	2—4	2—4	38¾	12½	4—3	4—3	42⅜	12½	2½	31	5—8	141½	28½	161½	33	45¾	57⅝	4060	2030
40—31	2,100,000	1,680,000	6	3	2½	2½	3	2—4	2—4	38¾	12½	5—3	5—3	42⅜	12½	2½	31	6—8	147½	28½	167½	33	45¾	57⅝	4200	2100
40—32	2,170,000	1,736,000	6	3	2½	2½	3	2—4	2—4	38¾	12½	5—3	5—3	42⅜	12½	2½	31	6—8	151⅞	28½	171⅞	33	45¾	57⅝	4340	2170
40—33	2,240,000	1,792,000	6	3	2½	2½	3	2—4	2—4	38¾	12½	5—3	5—3	42⅜	12½	2½	31	6—8	156¼	28½	176¼	33	45¾	57⅝	4480	2240
40—34	2,310,000	1,848,000	6	3	2½	2½	3	2—4	2—4	38¾	12½	5—3	5—3	42⅜	12½	2½	31	6—8	160⅝	28½	180⅝	33	45¾	57⅝	4620	2310
40—35	2,380,000	1,904,000	6	3	2½	2½	3	2—4	2—4	38¾	12½	5—3	5—3	42⅜	12½	2½	31	6—8	165	28½	185	33	45¾	57⅝	4760	2380

CRANE BASMOR GAS FIRED WARM AIR CONDITIONER



EQUIPMENT

Basmor No. 175 Diaphragm Gas Valve.
Basmor Electric Control Unit V-116-A and Transformer.
BASO Type combination Automatic Burner Valve and Pilot Control.
Crane Manual Gas Shut-off Valve.
Adjustable Gas Pressure Regulator.
Pilot Cocks.
Crane No. C 515X01 combination Automatic Fan and Limit Switch.
Large capacity Squirrel Cage Multiblade Fan with self-aligning pillow block bearings.
Continuous service 1725 R.P.M. Fan Motor.
Terminal block and junction box assembly.
Heavy Steel Jacket with Baked Crackle finish.
Baked crackle finish Draft Diverter.
Cast Iron Heat Exchanger Sections featuring Patented Basmor Heating Surface.
Dustop Air Filters.
Adjustable Cast Iron Pulley and V Belt Drive.
Pan Humidifier with Cast Iron Float Tank, adjustable automatic Float Valve, Overflow Drain Connection.
Refractory Evaporators.
Fixed Brass Burner Orifice.

CRANE
BASMOR
Gas Fired
WARM AIR CONDITIONER
MANUFACTURED FOR CRANE CO.

THE CRANE Basmor Gas Fired Warm Air Conditioner represents a vast improvement in warm air heating systems, offering the user complete winter air conditioning automatically, and with thorough dependability. It provides uniform clean, humidified, warm conditioned air throughout the home—on an amazingly economical basis. Heat exchangers are of cast iron, assuring long life and safe operation.

Installation is extremely neat and attractive, with utmost conservation of space, making possible a comfortable recreation or extra living room in the basement.

Crane Basmor Warm Air Conditioners are available in five different sizes with from two to six sections. Each Heat Exchanger section has its individual burner, which is controlled in unison with the burners in other sections by the Master Control System. "Staggered Heat Travel" extracts a maximum of heat from the gas burned, and transmits it efficiently to the air it is heating. The problem of heat loss has been successfully solved in this conditioner. Incoming return air sweeps through the outer housing, completely enveloping the inner, or heating compartment. Thus absorbing any heat lost thru the heating compartment and utilizing this to pre-heat the incoming air.

The cabinet, constructed of heavy steel and fabricated by the welding process, is modern in design with gracefully rounded corners. The attractive two-tone green is applied in crackle finish, and baked to assure permanent adhesion. Removable panels are provided for complete access to controls, Fan and Motor, and for cleaning purposes.

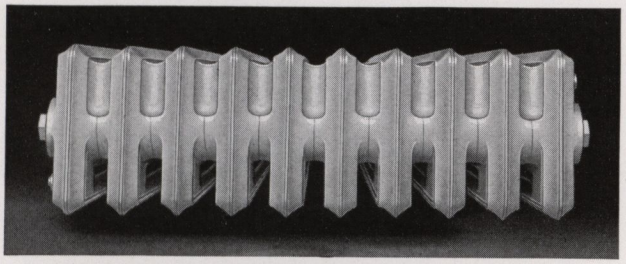
DATA TABLE

Model No.	Input B.T.U. Per Hour	Output B.T.U. Per Hour		Max. Total HrlyHeat Loss Conditioner Will Handle, B.T.U. per Hour	CFM Air Delivery	Number of Sections	Size of Flue Connec.	Gas Housing Connec.	Dimensions—Inches			H.P	Shipping Weight, Approx. Pounds
		At Bonnet	At Registers						Width	Length	Height		
2-C-10	100,000	80,000	72,000	63,000	920	2	6″	1″	30	71½	49⅛	¼	1170
3-C-15	150,000	120,000	108,000	97,000	1380	3	6″	1″	45	71½	49⅛	¼	1585
4-C-20	200,000	160,000	144,000	130,000	1840	4	2-5″	1″	60	71½	49⅛	⅓	2000
5-C-25	250,000	200,000	180,000	165,000	2300	5	2-6″	1¼″	75	71½	49⅛	½	2415
6-C-30	300,000	240,000	216,000	200,000	2750	6	2-6″	1¼″	90	71½	49⅛	¾	2830

Note: The above table has been calculated in accordance with the recommendations of the American Gas Association for sizing gas fired forced warm air furnaces.

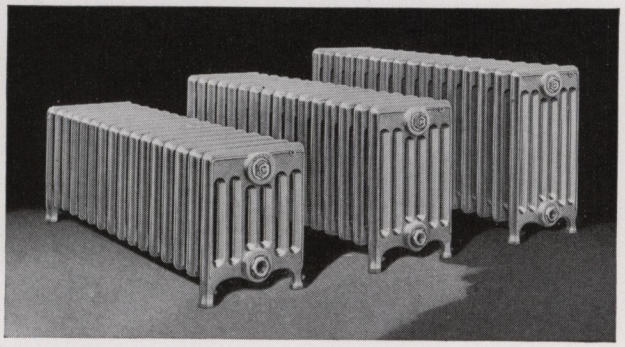
Crane Cast Iron Radiators

Symmetrical Beauty — Sturdy Screw Nipple Construction — Large Variety of Styles and Sizes — Easy Cleaning — Greater Heating Surface — Invisible Shields (Optional)

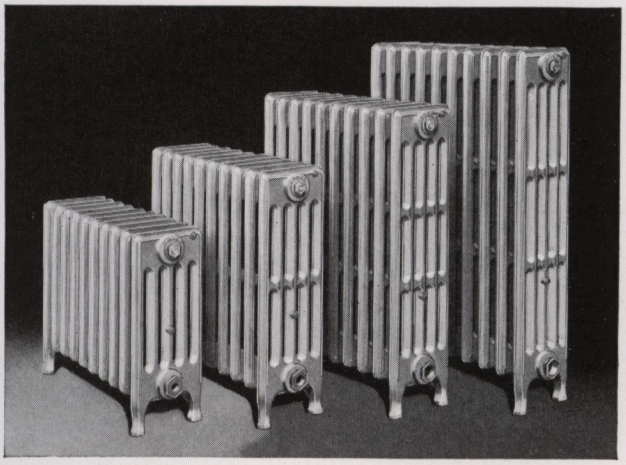


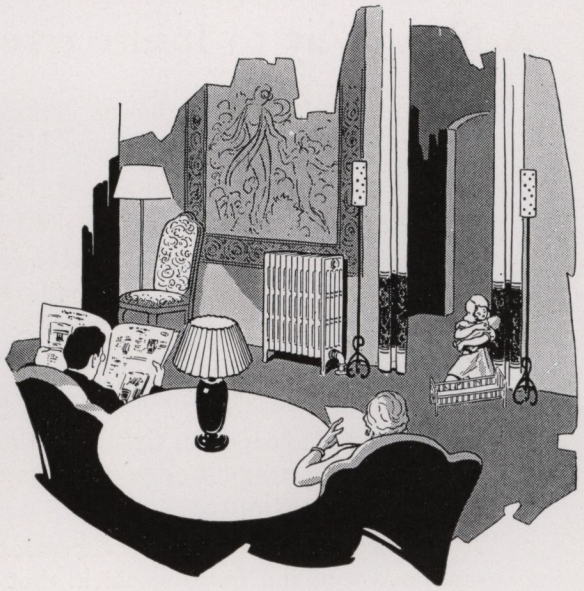
ALL these points are incorporated in the design of modern Crane Radiators and are largely responsible for the almost phenomenal rise to the enviable position now held by Crane Radiation. Inherent with this superior design are important contributions to comfort, cleanliness, and economy. The *Crane Invisible Shield* fits securely between the sections at the back of the radiator, throwing the heated air out into the room instead of letting it rise along the walls to the ceiling. This very effective shield not only prevents the soiling of walls and drapes, but also places the heated air in the lower part of the room where it is most desirable. The result is a distinct reduction in housecleaning bills and in fuel consumption.

The accurately machined screw nipple construction assures tight joints, unit strength, and ease of assembly. Open, lacy columns, in keeping with modern efficiency and modern decorative trends, enhance free air flow and facilitate cleaning. The hypocycloidal shape of the tubes on Crane radiation gives greater heating surface per section, which naturally means more heat per unit of space occupied.



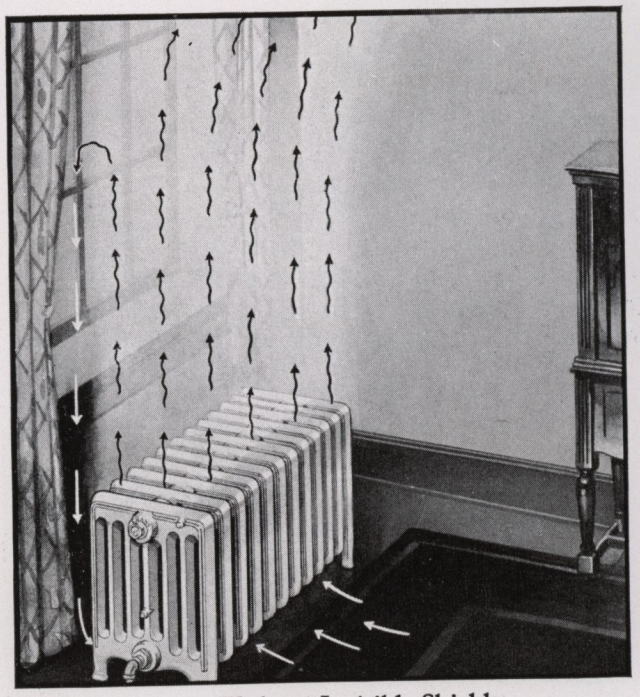
Crane radiation is made in styles and sizes which will fulfill all building requirements . . . meeting the special needs of offices, hospitals, auditoriums, gymnasiums, etc., as well as the ordinary demands imposed by everyday architectural necessity.



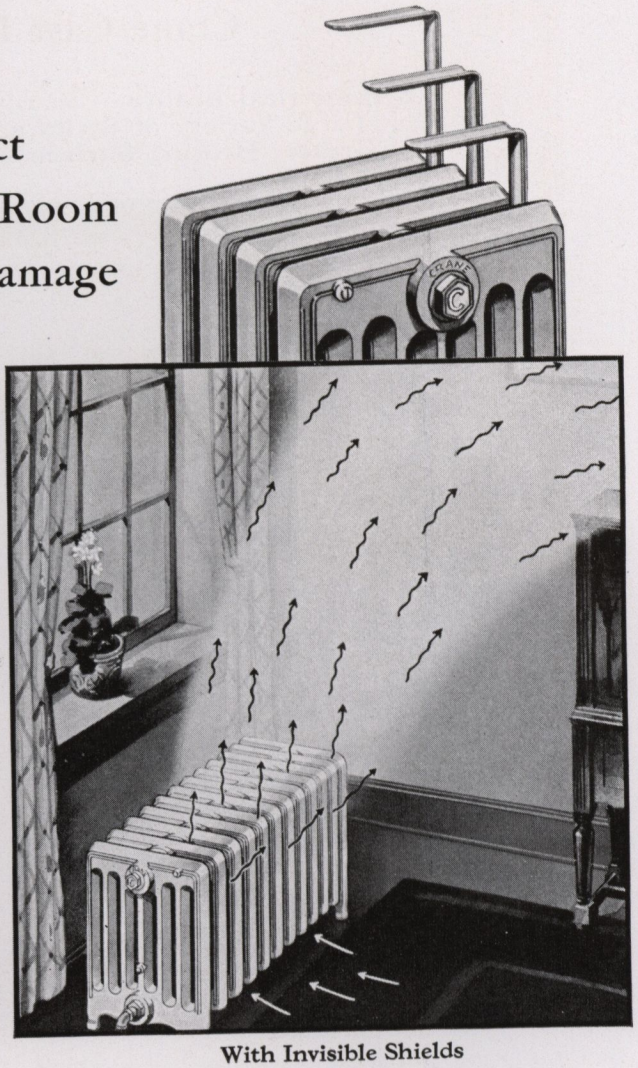


Directed Radiation

Crane Invisible Shields Direct Heat Currents Outward into the Room Save Walls and Draperies from Damage



Without Invisible Shields



With Invisible Shields

A New Way to Insure *even* Heat in Every Part of the Room

Directed or "shielded" radiation is the first practical method devised for projecting heat outwardly into the room by means of an invisible shield.

This has the twofold advantage of (1) improving heat circulation at "living" levels and (2) protecting walls, plaster, draperies and hangings from soiling.

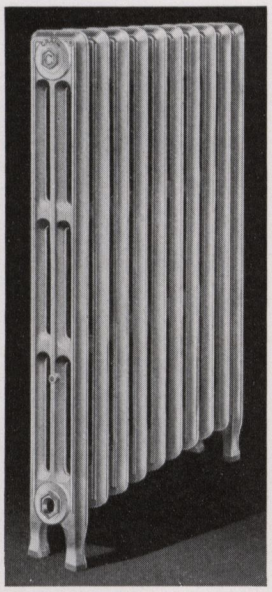
The Invisible Shield is an exclusive Crane feature. It is the only shield which can be fitted integral with the radiator. It is made of heavy gauge steel, is inserted easily, quickly and may be painted to match the radiator itself.

Between the floor and the 60″ level — "the comfort zone"—Crane Invisible Shields project warm, gently circulating air currents.

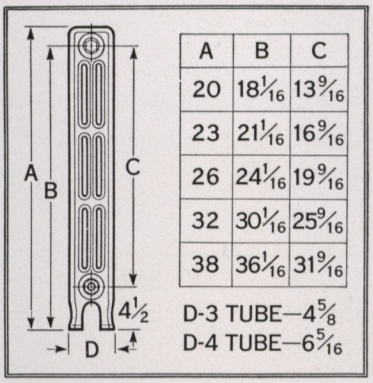
Careful tests indicate that Crane Radiator Shields reduce the amount of fuel required to heat a room to a comfortable point from floor to breathing line with a material reduction of ceiling temperature.

All Crane Radiators, with the exception of the wall, hospital and bathroom types can be equipped with this invisible shield that saves cleaning bills and reduces fuel costs.

Crane Radiators

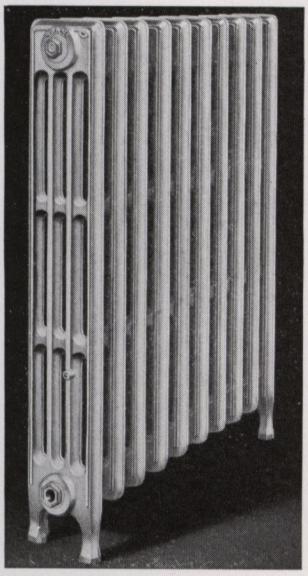


Three-Tube



A	B	C
20	18 1/16	13 9/16
23	21 1/16	16 9/16
26	24 1/16	19 9/16
32	30 1/16	25 9/16
38	36 1/16	31 9/16

D-3 TUBE—4 5/8
D-4 TUBE—6 5/16



Four-Tube

No. of Sections	*Length 2½-in. per Sec.	HEATING SURFACE—SQUARE FEET 38-in. Height 3½ Sq. Ft. per Sec.	32-in. Height 3 Sq. Ft. per Sec.	26-in. Height 2⅓ Sq. Ft. per Sec.	23-in. Height 2 Sq. Ft. per Sec.	20-in. Height 1¾ Sq. Ft. per Sec.
2	5	7	6	4⅔	4	3½
3	7½	10½	9	7	6	5¼
4	10	14	12	9⅓	8	7
5	12½	17½	15	11⅔	10	8¾
6	15	21	18	14	12	10½
7	17½	24½	21	16⅓	14	12¼
8	20	28	24	18⅔	16	14
9	22½	31½	27	21	18	15¾
10	25	35	30	23⅓	20	17½
11	27½	38½	33	25⅔	22	19¼
12	30	42	36	28	24	21
13	32½	45½	39	30⅓	26	22¾
14	35	49	42	32⅔	28	24½
15	37½	52½	45	35	30	26¼
16	40	56	48	37⅓	32	28
17	42½	59½	51	39⅔	34	29¾
18	45	63	54	42	36	31½
19	47½	66½	57	44⅓	38	33¼
20	50	70	60	46⅔	40	35
21	52½	73½	63	49	42	36¾
22	55	77	66	51⅓	44	38½
23	57½	80½	69	53⅔	46	40¼
24	60	84	72	56	48	42
25	62½	87½	75	58⅓	50	43¾
26	65	91	78	60⅔	52	45½
27	67½	94½	81	63	54	47¼
28	70	98	84	65⅓	56	49
29	72½	101½	87	67⅔	58	50¾
30	75	105	90	70	60	52½

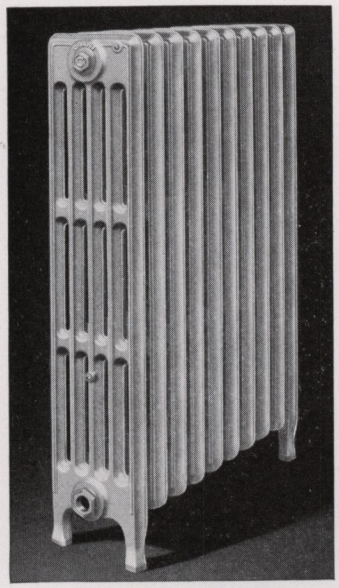
Width of section 4⅝"; width of leg 4⅝".
*Add ½" to length for each bushing.
Tappings—1½" right hand thread top and bottom. Bushed for water, steam or vapor as per specifications. All air valve tappings are ⅛".
Connections—Extra heavy right and left threaded malleable iron nipples at top and bottom.
Furnished on special order with 6" legs, or legless.

No. of Sections	*Length 2½-in. per Sec.	HEATING SURFACE—SQUARE FEET 38-in. Height 4¼ Sq. Ft. per Sec.	32-in. Height 3½ Sq. Ft. per Sec.	26-in. Height 2¾ Sq. Ft. per Sec.	23-in. Height 2½ Sq. Ft. per Sec.	20-in. Height 2¼ Sq. Ft. per Sec.
2	5	8½	7	5½	5	4½
3	7½	12¾	10½	8¼	7½	6¾
4	10	17	14	11	10	9
5	12½	21¼	17½	13¾	12½	11¼
6	15	25½	21	16½	15	13½
7	17½	29¾	24½	19¼	17½	15¾
8	20	34	28	22	20	18
9	22½	38¼	31½	24¾	22½	20¼
10	25	42½	35	27½	25	22½
11	27½	46¾	38½	30¼	27½	24¾
12	30	51	42	33	30	27
13	32½	55¼	45½	35¾	32½	29¼
14	35	59½	49	38½	35	31½
15	37½	63¾	52½	41¼	37½	33¾
16	40	68	56	44	40	36
17	42½	72¼	59½	46¾	42½	38¼
18	45	76½	63	49½	45	40½
19	47½	80¾	66½	52¼	47½	42¾
20	50	85	70	55	50	45
21	52½	89¼	73½	57¾	52½	47¼
22	55	93½	77	60½	55	49½
23	57½	97¾	80½	63¼	57½	51¾
24	60	102	84	66	60	54
25	62½	106¼	87½	68¾	62½	56¼
26	65	110½	91	71½	65	58½
27	67½	114¾	94½	74¼	67½	60¾
28	70	119	98	77	70	63
29	72½	123¼	101½	79¾	72½	65¼
30	75	127½	105	82½	75	67½

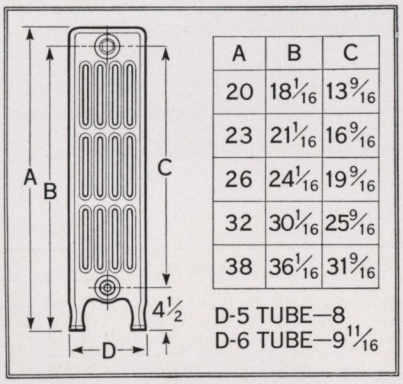
Width of section 6 5/16"; width of leg 6 5/16".
*Add ½" to length for each bushing.
Tappings—1½" right hand thread top and bottom. Bushed for water, steam or vapor as per specifications. All air valve tappings are ⅛".
Connections—Extra heavy right and left threaded malleable iron nipples at top and bottom.
Furnished on special order with 6" legs, or legless.

Crane radiation is made in styles and sizes which will fulfill all building requirements . . . meeting the special needs of offices, hospitals, auditoriums, gymnasiums, etc., as well as the ordinary demands imposed by everyday architectural necessity.

Crane Radiators



Five-Tube

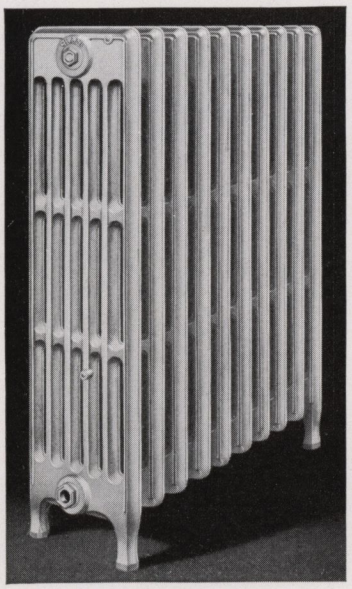


A	B	C
20	18 1/16	13 9/16
23	21 1/16	16 9/16
26	24 1/16	19 9/16
32	30 1/16	25 9/16
38	36 1/16	31 9/16

D-5 TUBE—8
D-6 TUBE—9 11/16

No. of Sections	*Length 2½-in. per Sec.	HEATING SURFACE—SQUARE FEET				
		38-in. Height 5 Sq. Ft. per Sec.	32-in. Height 4⅓ Sq. Ft. per Sec.	26-in. Height 3½ Sq. Ft. per Sec.	23-in. Height 3 Sq. Ft. per Sec.	20-in. Height 2⅔ Sq. Ft. per Sec.
2	5	10	8⅔	7	6	5⅓
3	7½	15	13	10½	9	8
4	10	20	17⅓	14	12	10⅔
5	12½	25	21⅔	17½	15	13⅓
6	15	30	26	21	18	16
7	17½	35	30⅓	24½	21	18⅔
8	20	40	34⅔	28	24	21⅓
9	22½	45	39	31½	27	24
10	25	50	43⅓	35	30	26⅔
11	27½	55	47⅔	38½	33	29⅓
12	30	60	52	42	36	32
13	32½	65	56⅓	45½	39	34⅔
14	35	70	60⅔	49	42	37⅓
15	37½	75	65	52½	45	40
16	40	80	69⅓	56	48	42⅔
17	42½	85	73⅔	59½	51	45⅓
18	45	90	78	63	54	48
19	47½	95	82⅓	66½	57	50⅔
20	50	100	86⅔	70	60	53⅓
21	52½	105	91	73½	63	56
22	55	110	95⅓	77	66	58⅔
23	57½	115	99⅔	80½	69	61⅓
24	60	120	104	84	72	64
25	62½	125	108⅓	87½	75	66⅔
26	65	130	112⅔	91	78	69⅓
27	67½	135	117	94½	81	72
28	70	140	121⅓	98	84	74⅔
29	72½	145	125⅔	101½	87	77⅓
30	75	150	130	105	90	80

Width of section 8″; width of leg 8″.
*Add ½″ to length for each bushing.
Tappings—1½″ right hand thread top and bottom. Bushed for water, steam or vapor as per specifications. All air valve tappings are ⅛″.
Connections—Extra heavy right and left threaded malleable iron nipples at top and bottom.
Furnished on special order with 6″ legs, or legless.



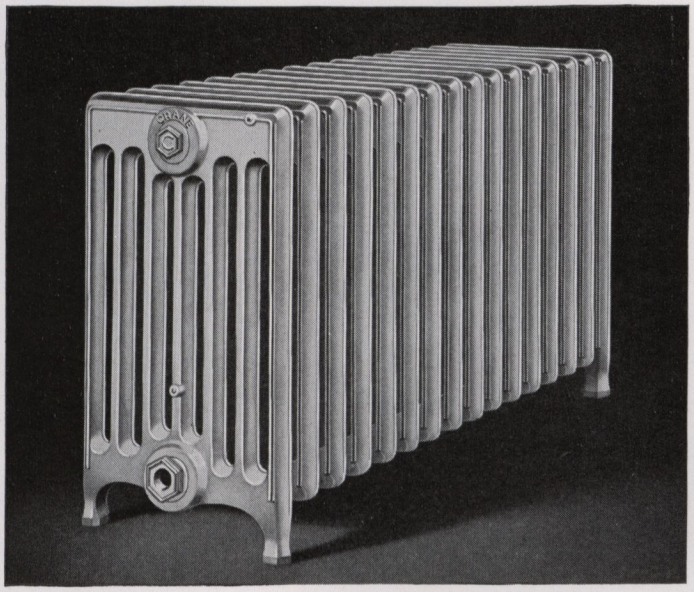
Six-Tube

No. of Sections	*Length 2½-in. per Sec.	HEATING SURFACE—SQUARE FEET				
		38-in. Height 6 Sq. Ft. per Sec.	32-in. Height 5 Sq. Ft. per Sec.	26-in. Height 4 Sq. Ft. per Sec.	23-in. Height 3½ Sq. Ft. per Sec.	20-in. Height 3 Sq. Ft. per Sec.
2	5	12	10	8	7	6
3	7½	18	15	12	10½	9
4	10	24	20	16	14	12
5	12½	30	25	20	17½	15
6	15	36	30	24	21	18
7	17½	42	35	28	24½	21
8	20	48	40	32	28	24
9	22½	54	45	36	31½	27
10	25	60	50	40	35	30
11	27½	66	55	44	38½	33
12	30	72	60	48	42	36
13	32½	78	65	52	45½	39
14	35	84	70	56	49	42
15	37½	90	75	60	52½	45
16	40	96	80	64	56	48
17	42½	102	85	68	59½	51
18	45	108	90	72	63	54
19	47½	114	95	76	66½	57
20	50	120	100	80	70	60
21	52½	126	105	84	73½	63
22	55	132	110	88	77	66
23	57½	138	115	92	80½	69
24	60	144	120	96	84	72
25	62½	150	125	100	87½	75
26	65	156	130	104	91	78
27	67½	162	135	108	94½	81
28	70	168	140	112	98	84
29	72½	174	145	116	101½	87
30	75	180	150	120	105	90

Width of section 9 11/16″; width of leg 9 11/16″.
*Add ½″ to length for each bushing.
Tappings—1½″ right hand thread top and bottom. Bushed for water, steam or vapor as per specifications. All air valve tappings are ⅛″.
Connections—Extra heavy right and left threaded malleable iron nipples at top and bottom.
Furnished on special order with 6″ legs, or legless.

As in all Crane radiators, the open columns make cleaning easy. And how symmetrically handsome they are!

Crane Radiators

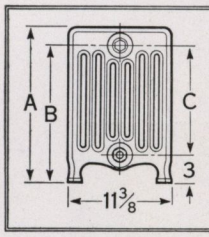


Seven-Tube

Here is the style for under a window or wherever a low radiator is needed. With standard legs of three inches, the heights are fourteen, seventeen, and twenty inches.

In these low radiators, Crane beauty is evident. Note the slim columns and clean vertical lines, the well-proportioned symmetry of the whole.

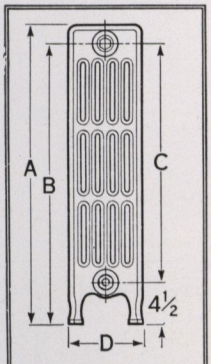
This style radiator is used chiefly in Living Rooms and Dining Rooms where drapes often are hung directly over the radiators. Protect these drapes with Crane Shielded Window Radiators.



A	B	C
14	12 1/16	9 1/16
17	15 1/16	12 1/16
20	18 1/16	15 1/16

No. of Sections	*Length 2½ in. Per Sec.	Heating Surface—Square Feet		
		14-in. Height 2½ Sq. Ft. Per Sec.	17-in. Height 3 Sq. Ft. Per Sec.	20-in. Height 3⅔ Sq. Ft. Per Sec.
2	5	5	6	7⅓
3	7½	7½	9	11
4	10	10	12	14⅔
5	12½	12½	15	18⅓
6	15	15	18	22
7	17½	17½	21	25⅔
8	20	20	24	29⅓
9	22½	22½	27	33
10	25	25	30	36⅔
11	27½	27½	33	40⅓
12	30	30	36	44
13	32½	32½	39	47⅔
14	35	35	42	51⅓
15	37½	37½	45	55
16	40	40	48	58⅔
17	42½	42½	51	62⅓
18	45	45	54	66
19	47½	47½	57	69⅔
20	50	50	60	73⅓
21	52½	52½	63	77
22	55	55	66	80⅔
23	57½	57½	69	84⅓
24	60	60	72	88
25	62½	62½	75	91⅔
26	65	65	78	95⅓
27	67½	67½	81	99
28	70	70	84	102⅔
29	72½	72½	87	106⅓
30	75	75	90	110

*Add ½" to length for each bushing.
Tappings—1½" right hand thread top and bottom. Bushed for water, steam or vapor as per specifications. All air valve tappings are ⅛".
Connections—Extra heavy right and left threaded malleable iron nipples at top and bottom.
Furnished on special order with 4½" legs or legless.



A	B	C
20	18 1/16	13 9/16
23	21 1/16	16 9/16
26	24 1/16	19 9/16
32	30 1/16	25 9/16
38	36 1/16	31 9/16

D-3 TUBE—4⅝
D-5 TUBE—8

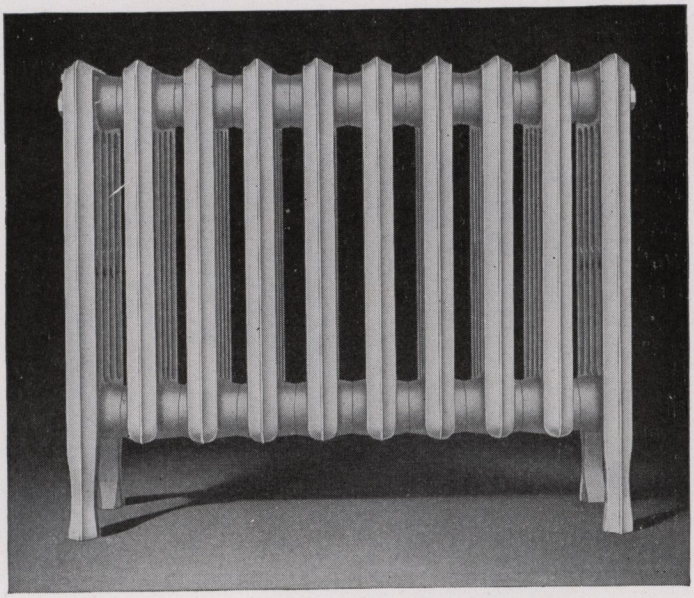
Crane Hospital Radiators

For hospital rooms and wards and for institutions where more than ordinary sanitation is the rule, Crane Hospital Radiators are made.

In them extra distance between centers greatly facilitates cleaning as it permits unhampered use of brush or cloth beneath and between sections.

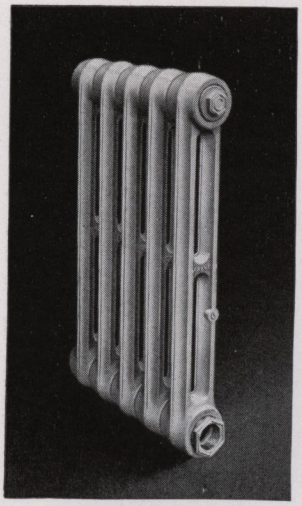
Crane Hospital Radiators are made to meet all practical conditions in the slender 3-tube and useful 5-tube sizes. *Center to center of sections 3 inches.*

Same ratings as regular radiators pages 161-3 and 161-4.

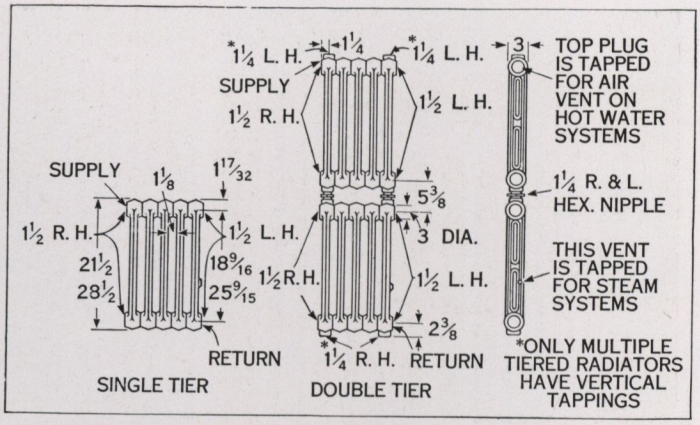


Crane Radiators

Two-Tube Wall and Ceiling Radiators



An innovation in Wall Radiator design which offers beauty and flexibility not found in other wall radiators.



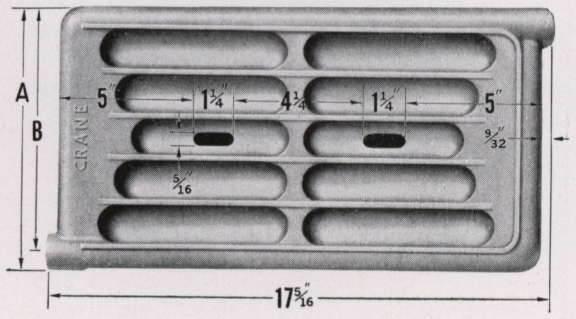
No. of Sections	Length 2½ in. Per Sec.	Heating Surface—Square Feet	
		21½-in. Height 1⅖ Sq. Ft. Per Sec.	28½-in. Height 1⅘ Sq. Ft. Per Sec.
2	5	2⅘	3⅗
3	7½	4⅕	5⅖
4	10	5⅗	7⅕
5	12½	7	9
6	15	8⅖	10⅘
7	17½	9⅘	12⅗
8	20	11⅕	14⅖
9	22½	12⅗	16⅕
10	25	14	18
11	27½	15⅖	19⅘
12	30	16⅘	21⅗
13	32½	18⅕	23⅖
14	35	19⅗	25⅕
15	37½	21	27
16	40	22⅖	28⅘
17	42½	23⅘	30⅗
18	45	25⅕	32⅖
19	47½	26⅗	34⅕
20	50	28	36
21	52½	29⅖	37⅘
22	55	30⅘	39⅗
23	57½	32⅕	41⅖
24	60	33⅗	43⅕
25	62½	35	45
26	65	36⅖	46⅘
27	67½	37⅘	48⅗
28	70	39⅕	50⅖
29	72½	40⅗	52⅕
30	75	42	54
31	77½	43⅖	55⅘
32	80	44⅘	57⅗
33	82½	46⅕	59⅖
34	85	47⅗	61⅕
35	87½	49	63

If right and left hand hexagon nipples are used add 1⅛" to the length of radiator for each hexagon nipple used. Add ½" to length for each bushing.

Crane Wall and Ceiling Radiators have been worked out to meet the special needs of auditoriums, gymnasiums, large offices, and all building projects where floor space is at a premium. When these radiators are supported by hooks or brackets, their slender grace will harmonize with any interior design, *while their screw nipple construction allows them to be assembled economically in any number of sections required for the area to be heated.* Sections can also be arranged for mounting in vertical tiers.

Bathroom Radiators

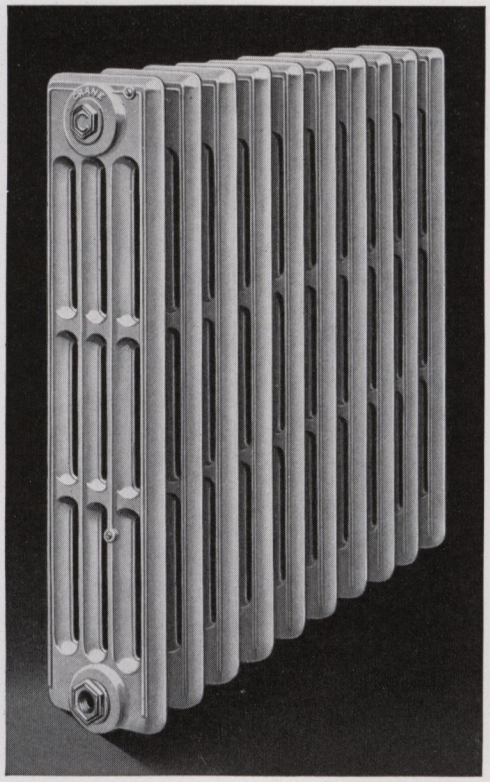
The best space saver of all is this Crane bathroom radiator that is easily fastened to the wall by lag screws, hooks, or brackets. It contributes to bathroom beauty in hotels, apartments, and other buildings where all available floor space is needed. It may be used in either horizontal or vertical positions.



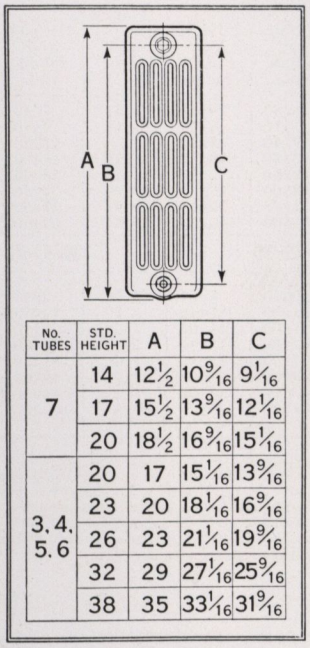
Dimensions	Ratings	
	3½ Foot Section	4¼ Foot Section
A	9	12
B	8 5/16	11 5/16

Tapped ½", both supply and return.

Crane Radiators



Legless Radiators



NO. TUBES	STD. HEIGHT	A	B	C
7	14	12½	10 9/16	9 1/16
	17	15½	13 9/16	12 1/16
	20	18½	16 9/16	15 1/16
3. 4. 5. 6	20	17	15 1/16	13 9/16
	23	20	18 1/16	16 9/16
	26	23	21 1/16	19 9/16
	32	29	27 1/16	25 9/16
	38	35	33 1/16	31 9/16

For Ratings and Widths of Radiators See Pages 161-3 to 162-1

Frequently, in bathroom and kitchen installations, radiators without legs are highly desirable to facilitate cleaning underneath. Office buildings, post offices, hospitals, and schools often find much need for it. The legless model is furnished in all lengths and widths.

Radiator Tapping and Bushing Data

Crane radiators are tapped 1½ inch right hand thread both top and bottom, and will be bushed as listed below **when specified.**

One-Pipe Work — Steam

Radiators containing 24 square feet and under..... 1 inch
Above 24, but not exceeding 60 square feet.....1¼ inch
Above 60.....1½ inch

Two-Pipe Work — Steam

Radiators containing 48 square feet and under..... 1 x ¾ inch
Above 48, but not exceeding 96 square feet..... 1¼ x 1 inch
Above 96 square feet.....1½ x 1¼ inch

Water — Supply and Return

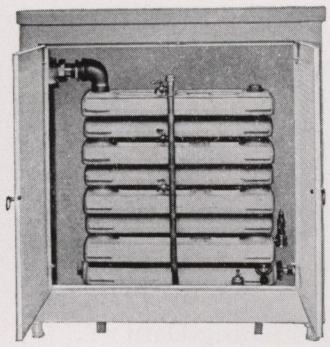
Radiators containing 40 square feet and under..... 1 inch
Above 40, but not exceeding 72 square feet.....1¼ inch
Above 72 square feet.....1½ inch

Vapor

Radiators containing 30 square feet and under.... ½ x ½ inch eccentric
Above 30 feet, not exceeding 60 square feet..... ¾ x ½ inch eccentric
Above 60 feet, not exceeding 125 square feet..... 1 x ½ inch eccentric
Above 125 square feet.....1¼ x ½ inch eccentric

When radiators are ordered for special systems, specific instructions should be given as to size of bushings. Crane ratings are based upon the Engineering Standard of 240 B.t.u. emission per square foot per hour for steam. All air valve tappings are ⅛ inch.

Crane Humidifying Radiators



Almost without exception the air in homes and offices during the heating season is too dry. The blame cannot be laid on any one form of heating; it is as much a fault of hot water as of hot air or vapor or steam. It is simply that when the temperature of air is increased, its capacity to absorb water is increased.

For example, when the thermometer stands at zero outdoors, the air drawn in to fill a room of average size contains one-eighth of a pint of water. When that air is artificially heated to 70 degrees, its capacity to hold water increases 16 times over.

This thirsty air tries to draw its moisture from the noses, throats, sinuses, skins of the dwelling's occupants; from pictures, hangings, clothes; woodwork and furniture.

The sure, economical, and automatic method of supplying correct humidity in heated homes is with a Crane Humidifying Radiator. This radiator is installed as part of the heating system.

Complete Specifications for Crane D-B Humidifying Radiators

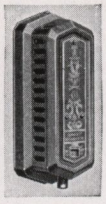
MODEL			20-C-4	20-C-6	20-C-8	20-C-10	30-C-6	30-C-8	30-C-10	30-C-12
TYPE OF HEATING SYSTEM			Hot Water, Steam or Vapor							
NUMBER OF SECTIONS			4 and Base	6 and Base	8 and Base	10 and Base	6 and Base	8 and Base	10 and Base	12 and Base
Boiler Load E. D. R. * *			52 11	79 16	105 23	131 28	102 21	136 28	170 35	204 44
DIMENSIONS	Unit Without Fittings	Length Width Height	21 9¾ 14½	21 9¾ 19½	21 9¾ 24½	21 9¾ 29½	30 9¾ 19½	30 9¾ 24½	30 9¾ 29½	30 9¾ 34½
	Unit over-all with Fittings	Length Width Height	28 10½ 19¾	28 10½ 24¾	28 10½ 29¾	28 10½ 34¾	38 10½ 24¾	38 10½ 29¾	38 10½ 34¾	38 10½ 39¾
	Metal Cabinet (Outside)	Length Width Height	31½ 11¾ 21	31½ 11¾ 33	31½ 11¾ 33	31½ 11¾ 36	41 11¾ 36	41 11¾ 36	41 11¾ 36	41 11¾ 42

MODEL		20-C-4			20-C-6			20-C-8			20-C-10		
Temperature of Heating Medium Hot Water, Steam or Vapor	Inches of Vacuum or Pounds Pressure	Pounds Evap'd per Hour	Cubic Feet *Homes and Small Apts.	Cubic Feet ‡Offices and Public Bldgs.	Pounds Evap'd per Hour	Cubic Feet *Homes and Small Apts.	Cubic Feet ‡Offices and Public Bldgs.	Pounds Evap'd per Hour	Cubic Feet *Homes and Small Apts.	Cubic Feet ‡Offices and Public Bldgs.	Pounds Evap'd per Hour	Cubic Feet *Homes and Small Apts.	Cubic Feet ‡Offices and Public Bldgs.
140°	24.0	1.1	3070	2560	1.53	4280	3570	1.88	5260	4380	2.51	7030	5850
150°	22.4	1.39	3890	3245	1.95	5460	4550	2.65	7410	6180	3.41	9550	7950
160°	20.3	1.95	5460	4540	2.65	7410	6180	3.48	9740	8120	4.38	12250	10200
170°	17.7	2.7	7560	6300	3.55	9940	8280	4.46	12480	10400	5.50	15400	12830
180°	14.6	3.48	9740	8120	4.46	12480	10400	5.56	15560	12960	6.75	18900	15750
190°	10.9	4.32	12095	10080	5.5	15400	12830	6.82	19800	15900	8.20	22950	19130
200°	6.5	5.29	14810	12350	6.72	18820	15680	8.28	23170	19300	9.95	27850	23200
215°	1 lb. Pressure	9.9	27700	23050	14.9	41720	34750	19.8	55400	46200	24.8	69400	57900
MODEL		**30-C-6**			**30-C-8**			**30-C-10**			**30-C-12**		
140°	24.0	2.2	6150	5130	2.7	7560	6300	3.6	10070	8400	4.6	12880	10730
150°	22.4	2.8	7840	6530	3.8	10640	8860	4.9	13700	11440	6.1	17050	14200
160°	20.3	3.8	10640	8860	5.0	14000	11650	6.3	17600	14700	7.7	21550	17950
170°	17.7	5.1	14250	11900	6.4	17900	14920	7.9	22100	18430	9.5	26580	22150
180°	14.6	6.4	17900	14920	8.0	22400	18650	9.7	27100	22630	11.6	32450	27000
190°	10.9	7.9	22100	18430	9.8	27400	22850	11.8	33000	27500	14.2	39760	33130
200°	6.5	9.7	27100	22630	11.9	33300	27750	14.3	40000	33300	17.1	47900	40000
215°	1 lb. Pressure	19.5	54600	45490	26.0	72800	60660	32.5	91000	75820	39.0	109200	90987

*The capacity for "Homes & Small Apts." is based on adding 2½ grains of water per cubic foot of air (at 70°) per hour.
‡The capacity for "Offices & Public Buildings" is based on adding 3 grains of water per cubic foot of air (at 70°) per hour.
**The equivalent direct radiation (E.D.R.) load in square feet is based on the Engineering Standard of 240 B.t.u. per square foot per hour at 70° room temperature with one pound steam pressure.

NOTE: The above humidifiers are not recommended for steam pressures in excess of two pounds as the extremely rapid evaporation causes a boiling sound which makes them unsatisfactory for domestic service. For industrial use where noise is not a factor, higher pressures may be used with correspondingly higher outputs. The ratings on this sheet are based on a maximum relative humidity of 40 %. For special installations requiring a higher percentage a larger size will be necessary.

Automatic Humidity Control

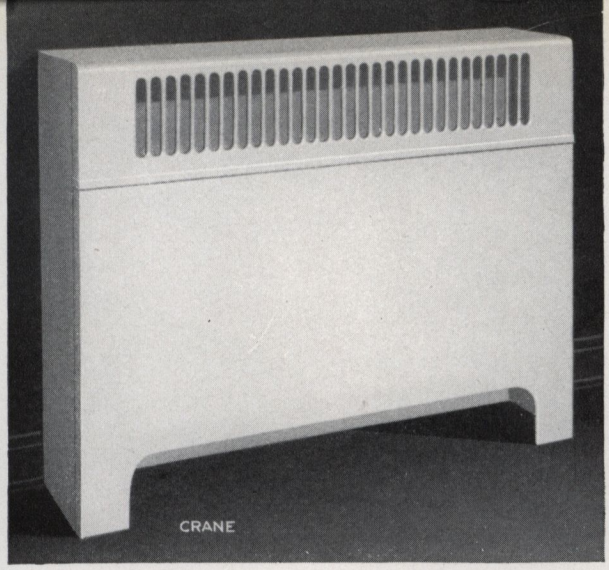


Humidistat

This trim little Humidistat is capable of maintaining a relative humidity within a variation of 3%. Its function is to control electrically a solenoid valve which stops or permits the flow of water to the humidifier troughs as required by atmospheric conditions.



Solenoid Valve



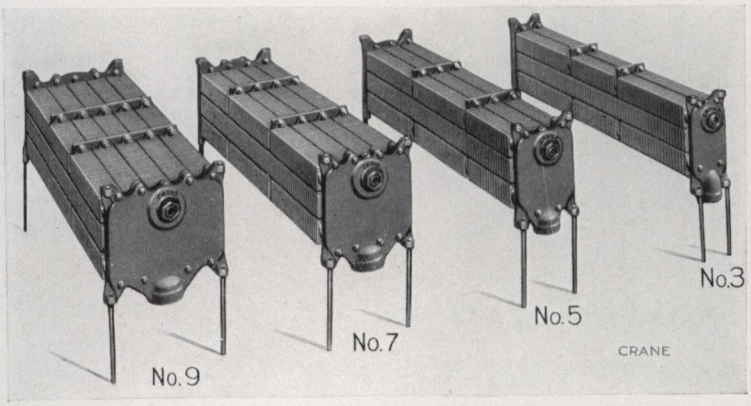
The Standard Convector Enclosure.

CRANE CONVECTORS

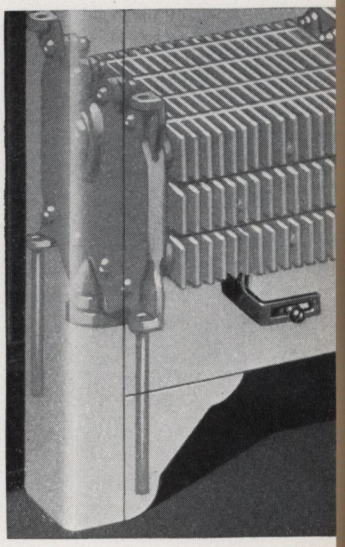
CRANE Convector Radiators and Enclosures, as described on the following pages, are made for every type of convection heating installation; fully recessed, partially recessed, plaster-front, free standing and wall hung. They may be had in any size to suit room requirements and can be furnished with the grilles illustrated—and with dampers, if desired, for controlling the circulation of air.

CONVECTOR RADIATORS

The Convector Radiator of cast iron, with its large integral fins, permits a freer movement of the air currents and exposes them to greater areas of heated surfaces. The Crane principle of construction is designed to stimulate—but not to force—the air flow.



The Four Types of Convector Radiators.



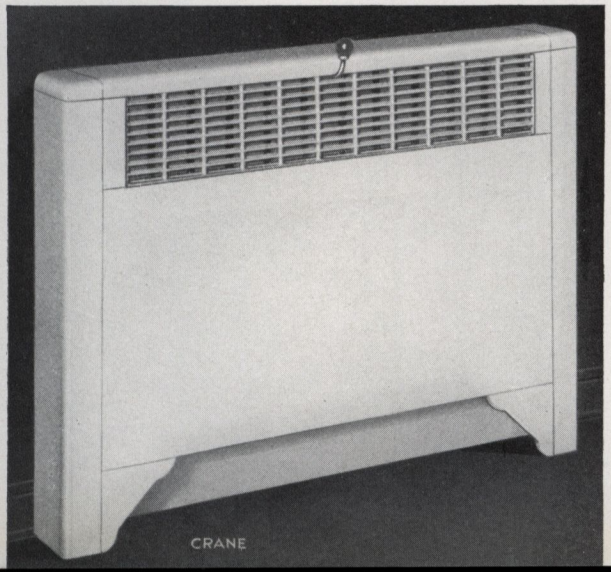
To assure having the front panel of the enclosures held rigidly in place, clips, as illustrated at the right, slip between the sections of the radiator, and fasten to the panel, holding it firmly in position.

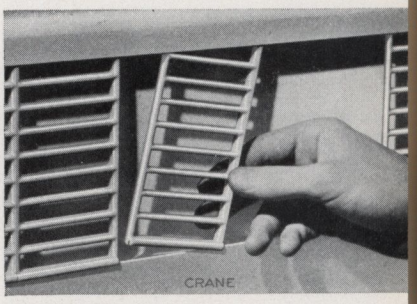
CONVECTOR ENCLOSURES

Enclosures are made in two styles, the Standard and the De Luxe. The Standard is a handsome enclosure suitable for any type of installation. In this enclosure, the grille is stamped into the front and is not removable.

The De Luxe enclosure may be had with the plastic grille or sectional-steel grille, either of which is removable. The plastic grille comes in Crane standard colors—India Ivory, Citrus Yellow, Sun Tan, Pale Jade, Persian Red and Black—to match any decoration scheme; and the removable feature permits easy access to the convector.

The De Luxe Convector Enclosure.





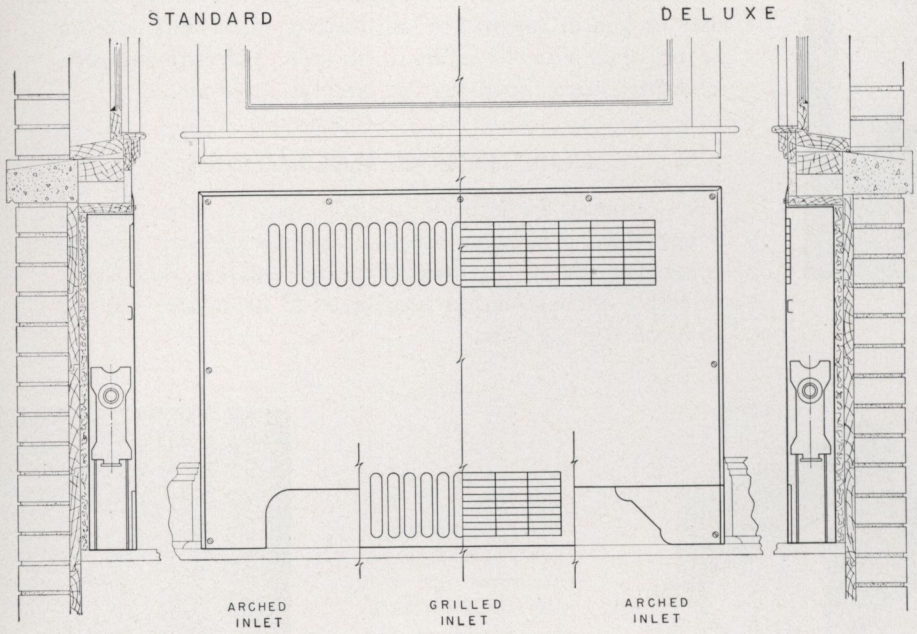
To the right is shown the handsome, new sectional grille which slips quickly into place and yet may easily be removed to permit vacuum cleaning the convector.

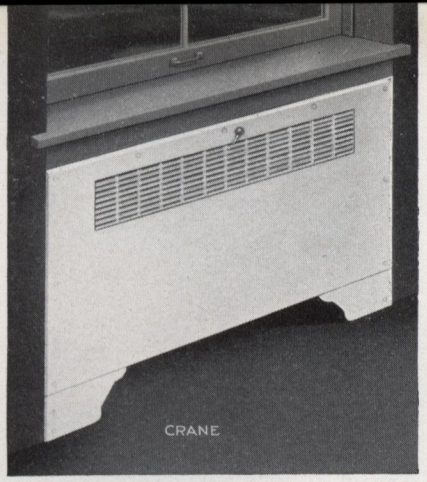
Steel grille finished in prime finish suitable for painting to match surroundings.

All enclosures or panels are regularly furnished with the arched inlet. Grilled inlet openings are available with all types of enclosures.

FULLY RECESSED INSTALLATION

Flush with the wall—out of the way—attractive in appearance.





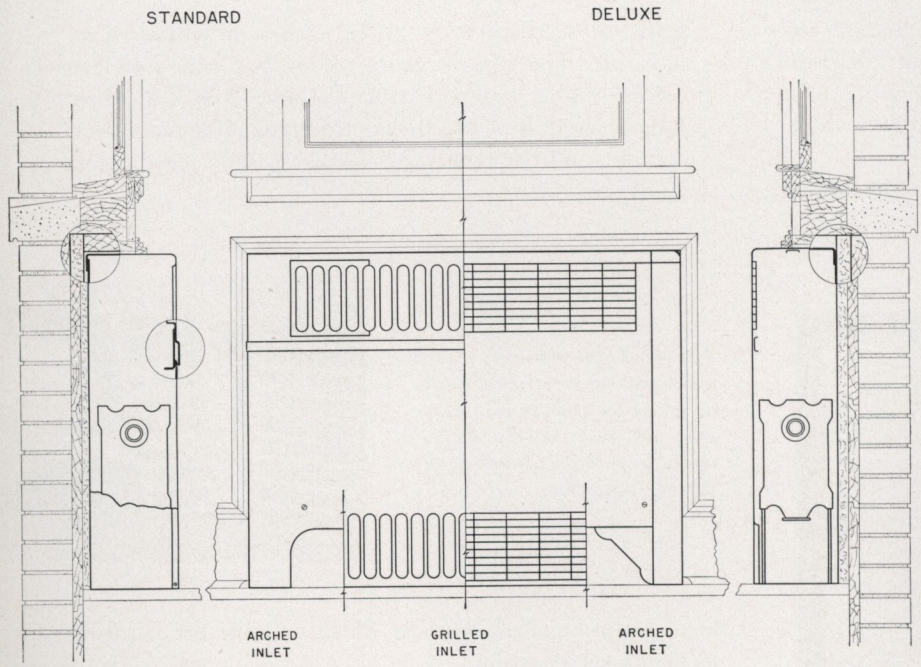
STANDARD & DE LUXE

SP or LP. These are front panels only which extend 1½" beyond recess opening at each end and at top. They are held in place by screws to the wood framing of the recess.

SPL or LPL. Complete enclosures which utilize the panels described above with the addition of a "liner box" consisting of ends top and back. The liner box is entirely separate from the panel and should be nailed or screwed to the back or ends of the recess.

PARTIALLY RECESSED INSTALLATION

Where a large amount of radiation is required or where the width of studding does not permit a convector to be fully recessed.



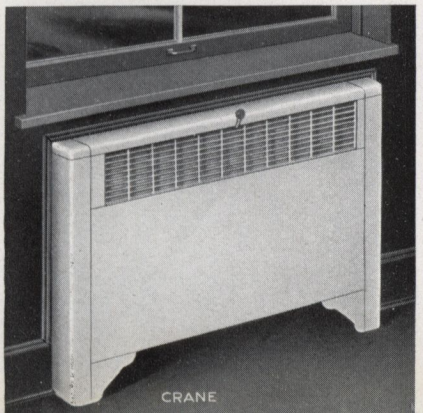
STANDARD

SC or LC. A complete enclosure in which the ends, back, top and grille portion of the enclosure are made into a unit. The remainder of the front is a removable panel held in place by two screws on the end of the enclosure at the front and by a reinforced slot extending across entire front of enclosure. The enclosure is placed in the recess before the radiator is connected, and the panel then put in place.

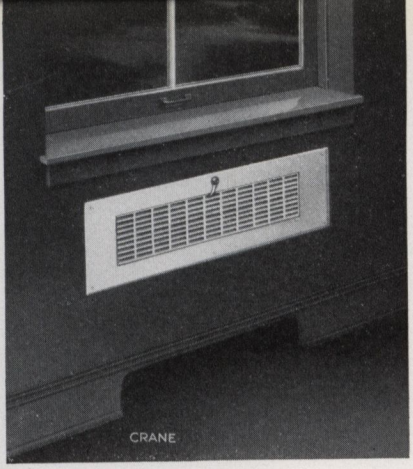
DE LUXE

SC or LC. A complete enclosure in which the back panel is separate from the remainder of the enclosure. The back is attached to the back of the recess with nails or screws after which the radiator is put in place. The front portion of the enclosure then slips into the recess and attaches to the radiator by means of clips.

SCP or LCP. This enclosure is identical to the SC or LC except that the back is omitted.

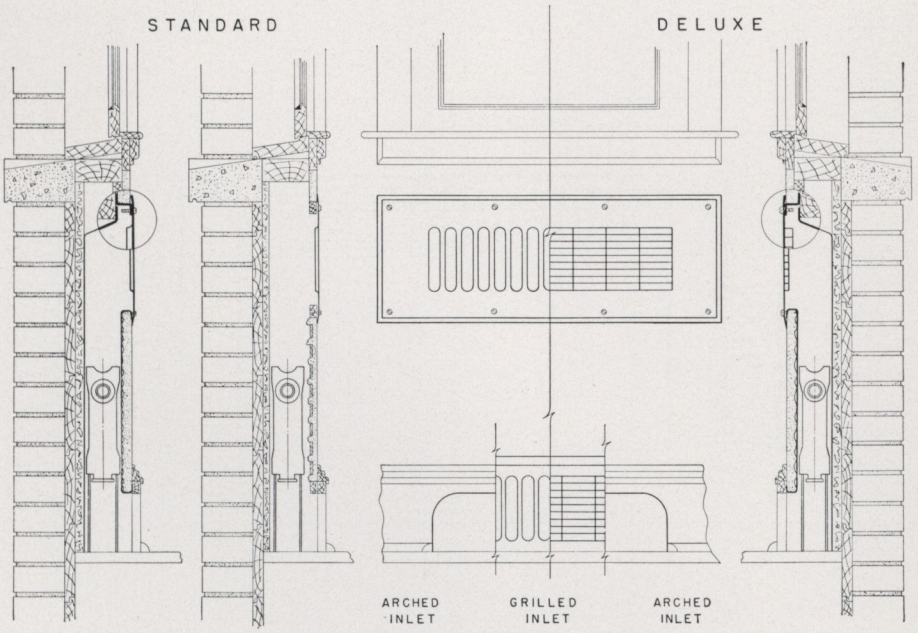


Further description . . . . Page 164-1 *Dimensions and Ratings . . . . Pages 164-6 to 164-10*



PLASTER FRONT INSTALLATION

Ideal where it is desired to completely conceal the heating medium, and carry out the overall decorative scheme.



STANDARD AND DE LUXE

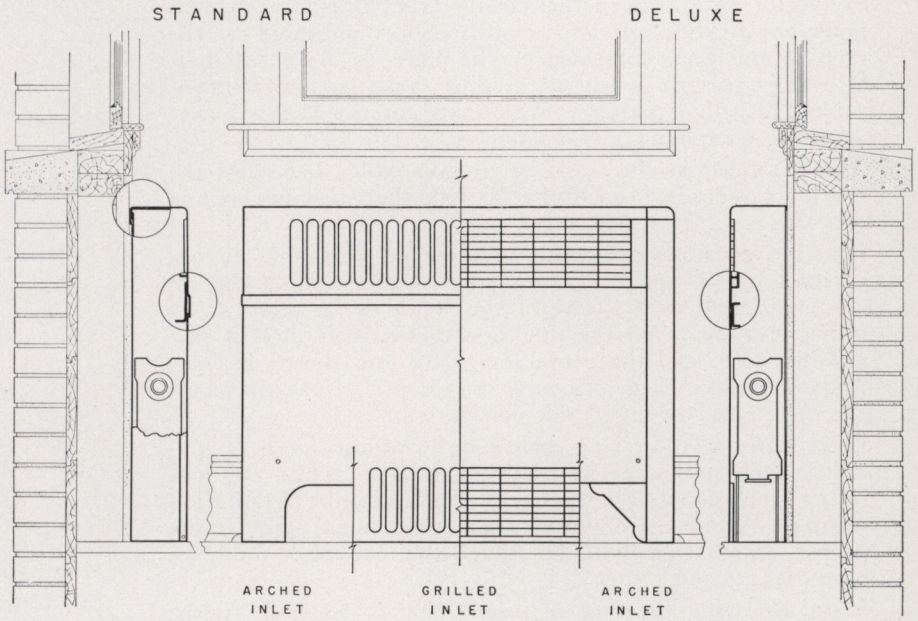
SPP or LPP. Front panels only for fully recessed installations with tile or plaster wall. Consists of a front panel which attaches to the recess framing and provides backing for the plaster or tile. Regularly furnished with separable outlet grille panel.

SPE or LPE. A complete enclosure which utilizes the panels described above with the addition of a "liner box" consisting of ends top and back. The liner box is entirely separate from the panel and should be nailed or screwed to the back or ends of the recess.

SG or LG. A grille panel only which attaches to the enclosure framing. The entire enclosure for the radiator is formed by the building construction itself, the grille panels merely attaching thereto. When an arched inlet installation is made it must be formed as a part of the building structure.

FREE STANDING INSTALLATION

Makes it possible for any home to have the beauty and comfort provided by convection heating, even where recessing the convector is impractical.

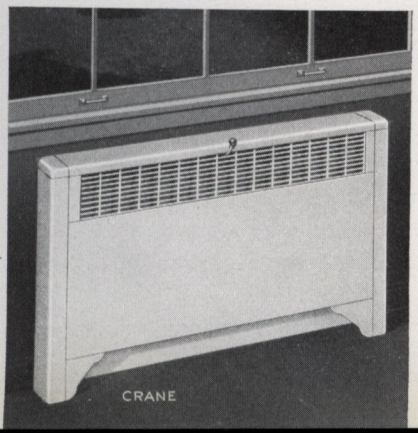


STANDARD

SC or LC. A complete enclosure in which the ends, back, top, and grille portion of the enclosure are made into a unit. The remainder of the front is a removable panel held in place by two screws on the end of the enclosure at the front and by a reinforced slot extending across entire front of enclosure.

DE LUXE

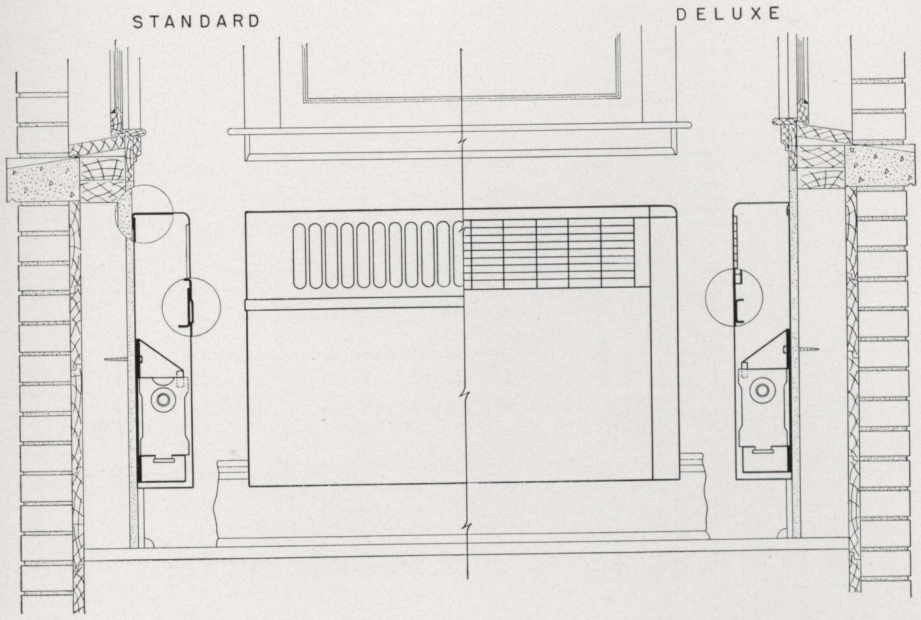
SC or LC. A complete enclosure in which the back panel is separable by means of screws from the remainder of the enclosure.

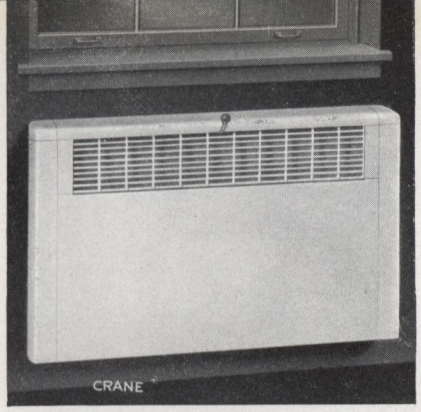


Further description . . . . Page 164-1 *Dimensions and Ratings . . . . Pages 164-6 to 164-10*

WALL HUNG INSTALLATION

The absence of legs permits easy cleaning below the convector and simplifies the laying of floor covering.





STANDARD

SWE or LWE. A complete enclosure in which the ends, back, top and grille portion of the enclosure are made into a unit. The remainder of the front is a removable panel held in place by two screws on the end of the enclosure at the front and by a reinforced slot extending across entire front of enclosure. The steel convector hangers attach to the wall by bolts or screws through the back of the enclosure. (Bolts or screws are not furnished with the hangers). Thus both convector and enclosure are supported by the hangers from the wall.

DE LUXE

SWE or LWE. A complete enclosure in which the back panel is separable by means of screws from the remainder of the enclosure. The steel convector hangers attach to the wall by bolts or screws through the back of the enclosure. (Bolts or screws are not furnished with the hangers.) Thus both convector and enclosure are supported by the hangers from the wall.

SELECTING THE RIGHT CONVECTORS

First: Determine amount of radiation required to heat the room in question. The Crane Heat Loss Calculator is recommended for this purpose.

Second: Knowing the type heating system to be used (steam, hot water or vapor) determine how piping is to be connected to convector and where valves are to be placed with reference to convector (supply entering from bottom vertical, bottom or top horizontal, etc., return leaving convector from bottom vertical or bottom horizontal for two pipe systems). Determine piping connection number from page 164-5.

Convector enclosures of the various types illustrated in this book are available in two lengths—Short indicated by the prefix S and Long indicated by the prefix L. As an example SC—short pattern in which the pipe enters bottom of radiator and LC—long pattern in which pipe enters side of radiator, affording complete concealment.

Third: Determine the recess height available, and select the maximum standard enclosure height that can be used in this recess.

Fourth: Determine the depth of the space available. If convector is to be totally recessed so that the front of the enclosure is flush with the wall, the depth of the recess is, of course, dependent on the thickness of the wall. If it is permissible to extend the convector partly into the room (partially recessed), then, of course, any depth of the convector can be selected to satisfy the condition.

Fifth: Refer to the rating table for the proper depth of convector, and opposite the enclosure height, select the first rating figure equal to or greater than the amount of radiation required. Above this figure in the same column opposite the proper designation will be found the convector number, recess length, etc.

Sixth: Knowing the type of installation to be made (flush, partial recess, etc.), refer to the page describing this enclosure and obtain enclosure type designation.

Pertinent information required on orders for convectors and enclosures.

Convector	Example
Quantity	(2)
Unit number of convector	(535)
Rating	(*Square feet each*)
Tapping Sizes	(½″ x ½″)
Piping Connections	(*as No. 1 or No. 2, etc.*)

Enclosures

Quantity	(2)
Type	(*SC-LC, etc.*)
Enclosure Height	(22″, 26″, *etc.*)
Style	
Standard	
De Luxe	(*Plastic-Ivory*)

(*If De Luxe, state if steel or plastic grille desired. State color if plastic.*)

Damper (not available with 18″ high enclosure)	(*Yes or No*)

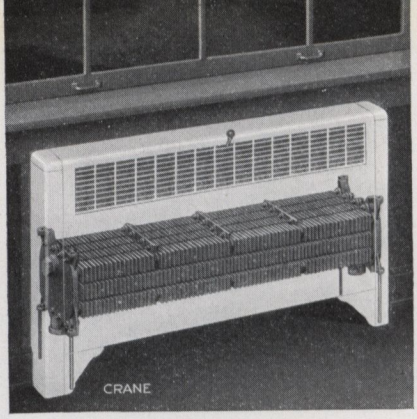
General

How should items be tagged (*Living Room, etc.*)

In addition to the above give any information on access doors, their location, grilled inlet openings, etc.

Further description of enclosures . . . . Page 164-1

Dimensions and Ratings . . . . Pages 164-6 to 164-10

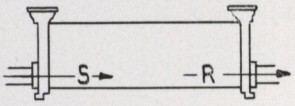


CRANE CONVECTOR TAPPINGS

TYPICAL PIPING CONNECTIONS

Tapping sizes and connections required must appear on orders.

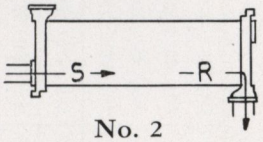
BOTTOM SUPPLY CONNECTIONS FOR VAPOR, VACUUM OR HOT WATER



No. 1

Horizontal bottom supply with horizontal bottom return.

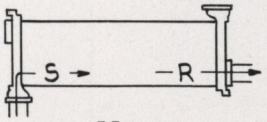
(LONG ENCLOSURE)



No. 2

Horizontal bottom supply with vertical bottom return.

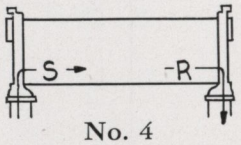
(LONG ENCLOSURE)



No. 3

Vertical bottom supply with horizontal bottom return.

(LONG ENCLOSURE)

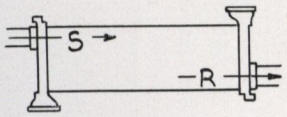


No. 4

Vertical bottom supply with vertical bottom return.

(SHORT ENCLOSURE)

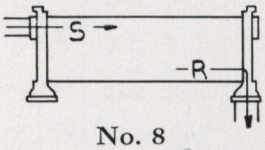
TOP SUPPLY CONNECTIONS FOR VAPOR, VACUUM OR HOT WATER



No. 7

Horizontal top supply with horizontal bottom return opposite ends.

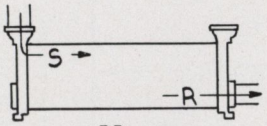
(LONG ENCLOSURE)



No. 8

Horizontal top supply with vertical bottom return opposite ends.

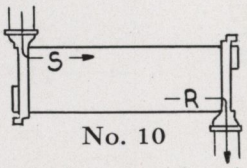
(LONG ENCLOSURE)



No. 9

Vertical top supply with horizontal bottom return opposite ends.

(LONG ENCLOSURE)

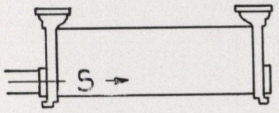


No. 10

Vertical top supply with vertical bottom return opposite ends.

(SHORT ENCLOSURE)

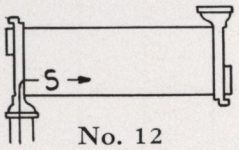
CONNECTIONS FOR ONE PIPE STEAM



No. 11

Horizontal bottom supply for one pipe steam.

(LONG ENCLOSURE)

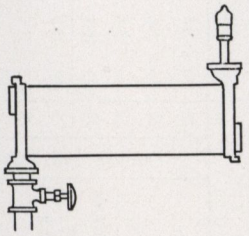


No. 12

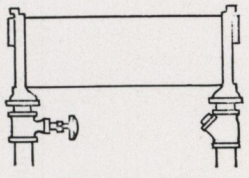
Vertical bottom supply for one pipe steam.

(SHORT ENCLOSURE)

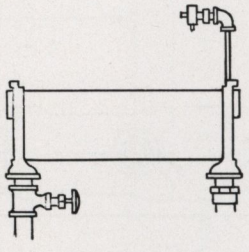
SUGGESTED VENT LOCATIONS



One pipe steam system.



Two pipe vapor or vacuum system.

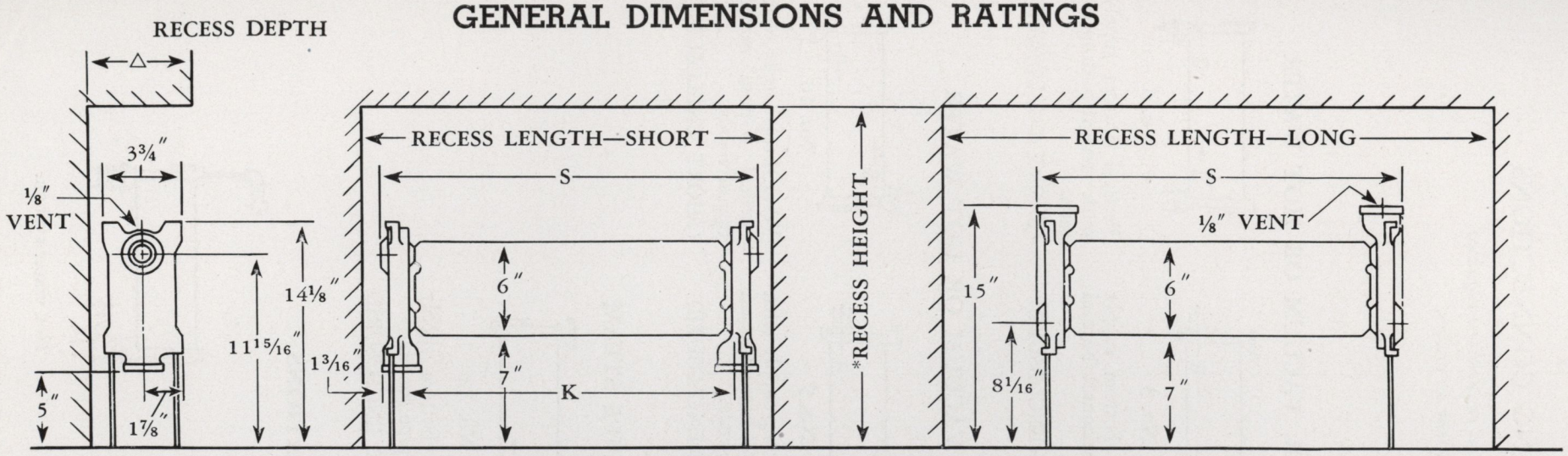


Hot water system.

Ordering Data . . . . Page 164-4

Dimensions and Ratings . . . . Pages 164-6 to 164-10

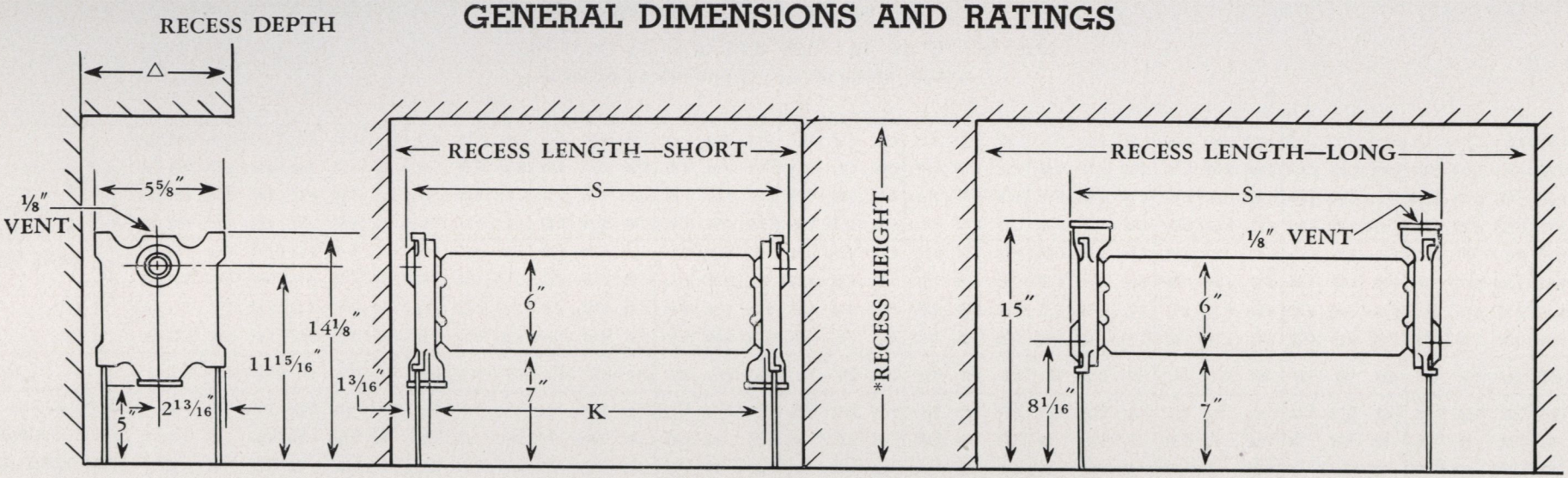
GENERAL DIMENSIONS AND RATINGS



Tappings are 1¼″—bushed to size as specified.
Bushings and plugs extend ½″ beyond face of hubs.
Horizontal return bushings are eccentric, others are concentric.

| | | |

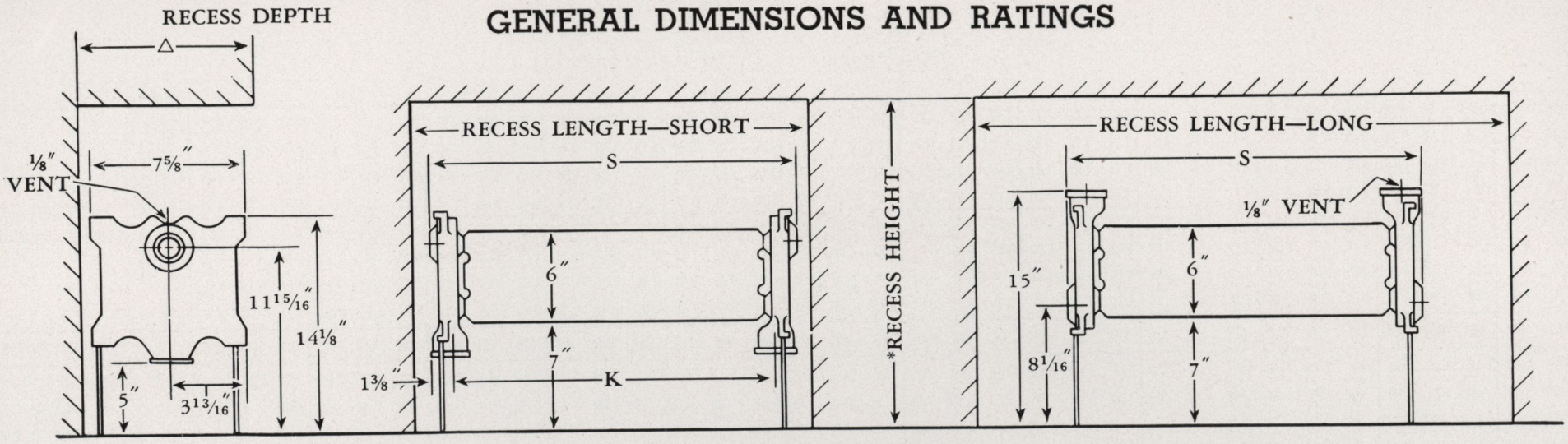
GENERAL DIMENSIONS AND RATINGS



Tappings are 1¼"—bushed to size as specified.
Bushings and plugs extend ½" beyond face of hubs.
Horizontal return bushings are eccentric, others are concentric.

| | | |

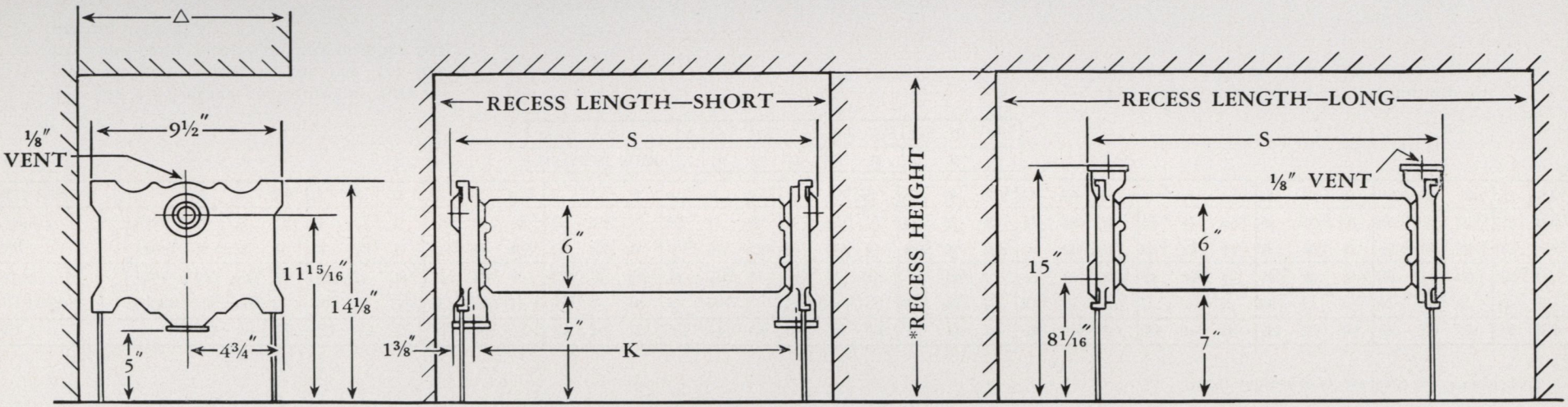
GENERAL DIMENSIONS AND RATINGS



Tappings are 1½"—bushed to size as specified.
Bushings and plugs extend ½" beyond face of hubs.
Horizontal return bushings are eccentric, others are concentric.

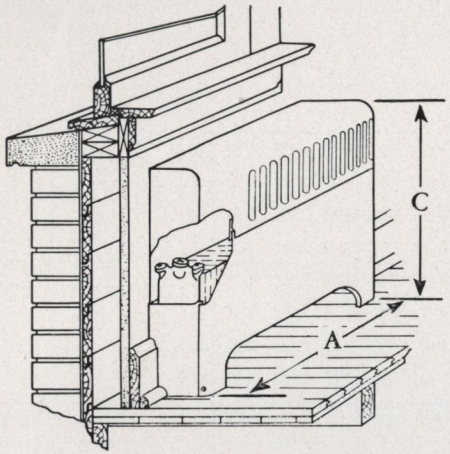
| | | |

GENERAL DIMENSIONS AND RATINGS



Tappings are 1½"—bushed to size as specified.
Bushings and plugs extend ½" beyond face of hubs.
Horizontal return bushings are eccentric, others are concentric.

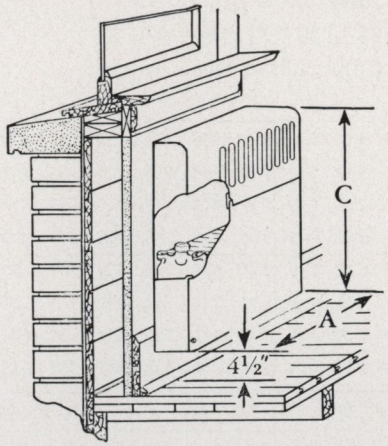
| | | |



TYPE "SC" or "LC"

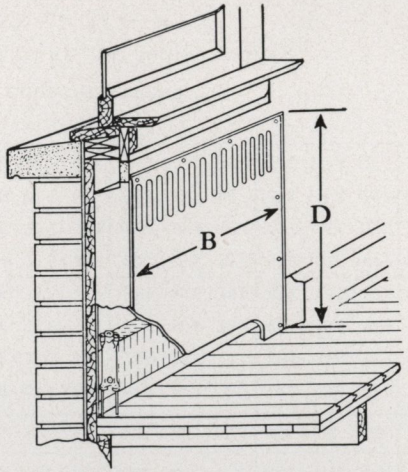
Complete cabinet consisting of Top, Front, Side and Back Panel. Designed for either free standing in room or partially recessed in wall.

TYPE "SCP" or "LPC" — Same as "SC" or "LC" except back is omitted. Furnished in DeLuxe Enclosures only.



TYPE "SWE" or "LWE"

Complete cabinet similar to "SC" or "LC" except special design for wall hanging.

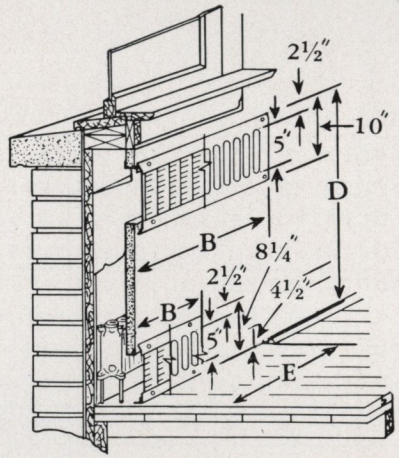


TYPE "SPL" or "LPL"

Panels designed for flush installation with liner box.

TYPE "SP" or "LP"

Same as "SPL" or "LPL" except without liner box.



TYPE "SPE" or "LPE"

Panels for flush installation. Designed for tile or plaster application and furnished with liner box.

TYPE "SPP" or "LPP"

Same as Type "SPE" or "LPE" except liner box omitted.

TYPE "SG" or "LG"

Grille panel only designed for tile or plaster application.

Above dimensions for Standard and DeLuxe Panels.

UNIT No.*			313	318	320	323	325	328	330	333	335	338	340	343	345	348	350	353	355	358	360	363	365	368	370	373	375	378	380	383	385	388	390	393	395	398	3100
ENCLOSURE LENGTH	A	SHORT	14½	19½	22	24½	27	29½	32	34½	37	39½	42	44½	47	49½	52	54½	57	59½	62	64½	67	69½	72	74½	77	79½	82	84½	87	89½	92	94½	97	99½	102
		LONG	24½	29½	32	34½	37	39½	42	44½	47	49½	52	54½	57	59½	62	64½	67	69½	72	74½	77	79½	82	84½	87	89½	92	94½	97	99½	102	104½	107	109½	112
PANEL LENGTH	B	SHORT	18	23	25½	28	30½	33	35½	38	40½	43	45½	48	50½	53	55½	58	60½	63	65½	68	70½	73	75½	78	80½	83	85½	88	90½	93	95½	98	100½	103	105½
		LONG	28	33	35½	38	40½	43	45½	48	50½	53	55½	58	60½	63	65½	68	70½	73	75½	78	80½	83	85½	88	90½	93	95½	98	100½	103	105½	108	110½	113	115½
INLET LENGTH		E	8	13	15½	18	20½	23	25½	28	30½	33	35½	38	40½	43	45½	48	50½	53	55½	58	60½	63	65½	68	70½	73	75½	78	80½	83	85½	88	90½	93	95½

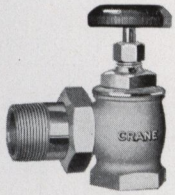
ENCLOSURE HEIGHT	C	18	20	22	24	26	29	32	38
PANEL HEIGHT	D	19½	21½	23½	25½	27½	30½	33½	39½

The No. 313 DeLuxe enclosure has three removable grille sections, the No. 318 has five, and each successive unit number has one additional.

The depth dimensions of a complete enclosure is ⅛" less than the recess depth.

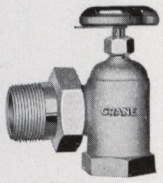
*Unit Nos. are given for No. 3 Convector—but they apply equally to the Nos. 5-7-9 Convectors in corresponding lengths.

BRASS RADIATOR VALVES AND UNION ELBOWS



No. 112

Crane steam radiator angle valve with union. Crane renewable disc. Rough body, plated all over.
Sizes—½ to 2-inch.
*Corner Type No. 113.

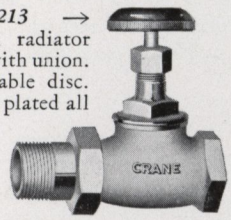


No. 174

Crane hot water radiator angle valve with union. Rough body, plated all over.
Sizes—½ to 2-inch.

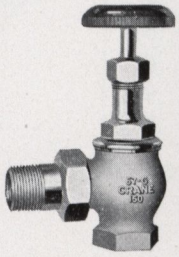
No. 1213 →

Crane steam radiator globe valve with union. Crane renewable disc. Rough body, plated all over.
Sizes—½ to 1½-inch.



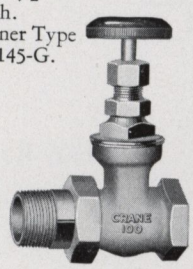
← *No. 67-G*

Crane 150-lb. government pattern radiator angle valve with union and rising stem. Has gland in stuffing box.
Sizes—½ to 2-inch.
*Corner Type No. 145-G.

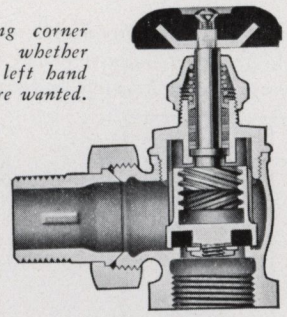


No. 455 →

Crane non-rising stem gate valve for 100 lbs. steam working pressure. Can be furnished rough body, plated all over, or rough body, plain.
Sizes—½ to 1½-inch.

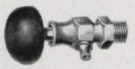


When ordering corner valves, specify whether right hand or left hand corner valves are wanted.



No. 226

Crane quick opening self-adjusting packed steam radiator angle valve with non-rising stem and union. Crane renewable disc. Rough body, plated all over. Can also be used for hot water or vacuum.
Sizes—½ to 1½-inch.
*Corner Type No. 227.



No. 206

With Wood Wheel.
Size—⅛-inch.



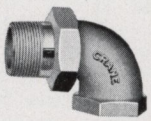
No. 210

With Lock Shield and Loose Key.
Size—⅛-inch.



No. 232
Patented

Crane brass modulating radiator angle valve, with self-adjusting packed stuffing box and Crane renewable disc. Non-rising stem. Rough body, plated all over.
Sizes—½ to 1½-inch.



No. 192

Crane hot water radiator elbow with union. Rough body, plated all over.
Sizes—½ to 2-inch.



No. 10

Pressed steel covering plate. Nickel or chromium plated.
Sizes—¼ to 4-inch.

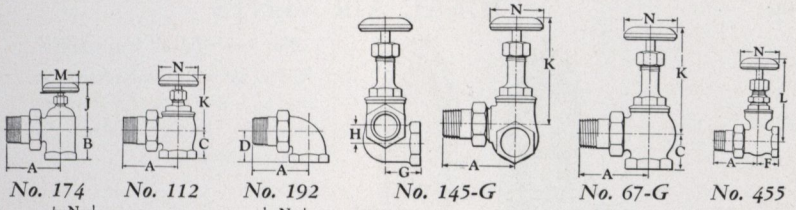
DIMENSIONS, IN INCHES

Size	No. 112—113—174—192—1213						No. 226—227					No. 232				No. 233	
	½	¾	1	1¼	1½	2	½	¾	1	1¼	1½	½	¾	1	1¼	½	¾
A(*)	2¼	2¾	3	3½	3¾	4¼	2¼	2¾	3	3½	3¾	2¾	2¾	3	3½	2¼	2¾
B	1⅛	1¼	1½	1 13/16	2 1/16	2⅜											
C	1	1 3/16	1 7/16	1 11/16	1 11/16	2⅛	1	1 3/16	1 7/16	1 11/16	1 13/16	1	1 3/16	1 7/16	1 11/16	15/16	1⅛
D	1⅛	1 5/16	1 9/16	1 11/16	2 1/16	2½											
E	2½	2⅞	3¼	3¾	4												
F	1 3/16	1⅜	1⅝	1⅞	2⅛												
G	1 3/16	1⅜	1 11/16	2	2¼	2¾	1 3/16	1⅜	1 11/16	2	2¼						
H	⅝	¾	15/16	1 3/16	1 5/16	1 11/16	⅝	¾	15/16	1 3/16	1 5/16						
J	2⅛	2⅜	2¾	3	3⅜	4											
K-Open	3⅛	3⅞	4⅝	5⅛	6⅛	7½	3	3	3¼	3½	4	3	3	3¼	3½	3⅝	3⅞
L-Open	3⅝	4⅛	4⅝	5⅛	5¾												
M	2	2	2	2¼	2½	2¾											
N	2	2	2¼	2½	2¾	3	2	2	2¼	2½	2¾	2⅜	2⅜	2⅜	2⅜	2 5/16	2 5/16

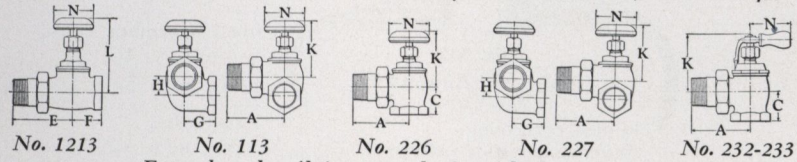
Size	No. 67G						No. 145G						No. 455				
	½	¾	1	1¼	1½	2	½	¾	1	1¼	1½	2	½	¾	1	1¼	1½
A	2⅜	3¼	3½	3 7/8	4⅜	5¼	2⅝	3	3¾	4	4⅜	5	1				
C	1 3/16	1⅝	1¾	2	2¼	2 9/16											
E													2¼	2 11/16	2 13/16	3 3/16	3 5/16
F													1	1⅛	1 5/16	1½	1 9/16
G							1¼	1½	1⅞	2	2¼	2⅝					
H							½	11/16	15/16	1	1 5/16	1⅝					
K							4½	5¼	6	7⅛	7½	8⅜					
L	4½	5¼	6	7⅛	7½	8⅜							3¾	4½	5¼	5¾	6½
N	2¼	2½	2¾	3	3	3	2¼	2½	2¾	3	3	3	1¾	2	2¼	2½	2¾

(*) Dimension A conforms to the Standard adopted by the Heating and Piping Contractors' National Association in co-operation with the Manufactures Standardization Society of the Valve and Fittings Industry.

Lock Shields can be furnished with Nos. 112, 113, 1213, 226, 227, 67-G, 145-G, 455, and 174 Crane radiator valves at no extra charge. Keys are extra.



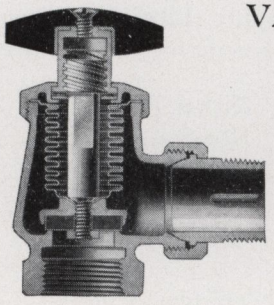
No. 174 *No. 112* *No. 192* *No. 145-G* *No. 67-G* *No. 455*



No. 1213 *No. 113* *No. 226* *No. 227* *No. 232-233*

Extra length tailpieces can be furnished on request

"HOFFMAN" PACKLESS RADIATOR VALVES



No. 37

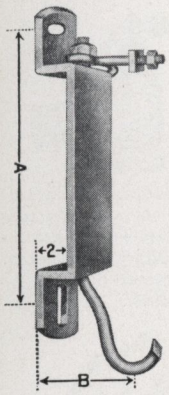
Hoffman Bellows Packless Valve. The durable leak-proof Bellows eliminates escaping steam or water.
Sizes—½ to 1½-inch.

No. 47

Hoffman Packless Valve. Same except spring packed (no Bellows).
Sizes—½ to 1½ inch.

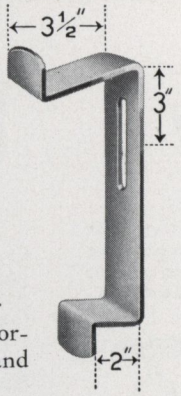
ADJUSTABLE STEEL HANGERS FOR RADIATORS

Entirely of steel, non-breakable, and easily attached to any wall surface. Adjustable to meet requirements, practically invisible and strong enough for the longest and heaviest radiators—no extra work cutting pipe on job.



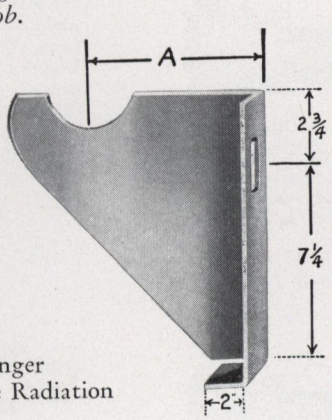
RADIATOR HEIGHTS	"A"	TUBE	"B"
21½&28½	14	2	3¾"
20	8	3	4⅜"
23	12	4	5¼"
26	14	5	6"
32	14	6	6⅞"
38	24	7	7¾"

No. 1 Radiator Hanger for Crane Radiation 2 to 7 Tubes



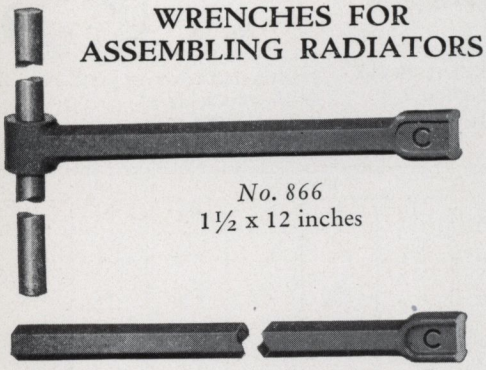
No. 2 Special Hanger for Wall Radiation in Horizontal Position, 21½ and 28½" Heights.

TUBE	"A"
3	4⅜"
4	5¼"
5	6"
6	6⅞"
7	7¾"



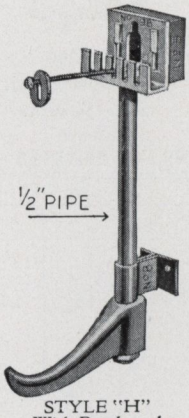
No. 4 Hanger for 3 to 7-Tube Radiation

WRENCHES FOR ASSEMBLING RADIATORS



No. 866
1½ x 12 inches

Nos. 864 and 865
864—1½ x 48 inches
865—1½ x 24 inches



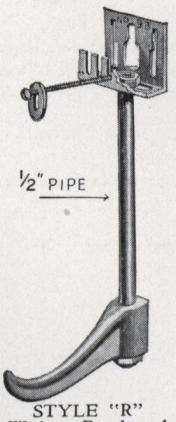
STYLE "H"
With Baseboard Adjustment.
2½" from wall.

E-Z Radiator Hangers

Suitable for all makes and styles of radiation and adapted to any type of construction.

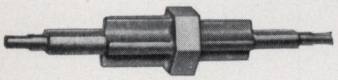
Designed for vertical and horizontal alignment, self adjusting to expansion, requires but one anchor bolt for each hanger; also designed to anticipate the use of temperature control valves.

All parts made of pressed steel, except the bottom hook support. All parts furnished except anchor bolt and ½" pipe. All style "R" hangers convertible with Parts No. 5 and No. 8 into Style "H".

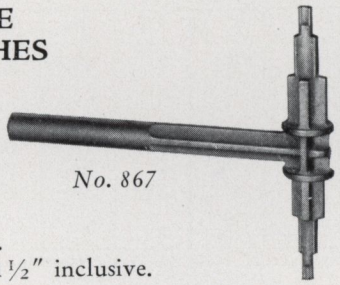


STYLE "R"
Without Baseboard Adjustment.
1½" from wall.

RADIATOR VALVE TAILPIECE WRENCHES



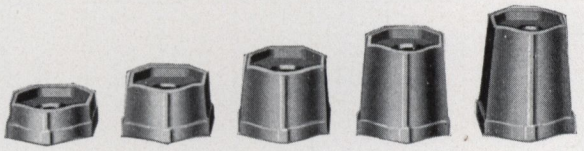
No. 868



No. 867

Black malleable iron.
For all sizes ⅜" to 1½" inclusive.

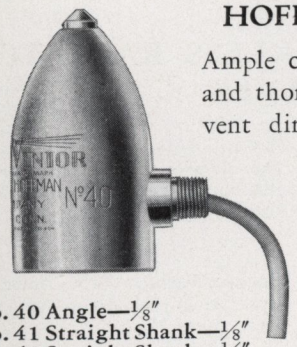
RADIATOR PEDESTALS



To fit under legs of all styles of Crane Radiation.

Sizes: ½, 1, 1½, 2, 2½, 3, 3½, 4, 4½ and 5" high.

HOFFMAN No. 40 AIR VENTS

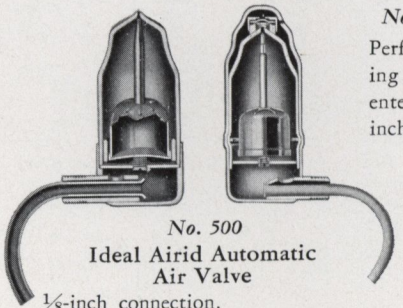


Ample capacity to vent radiators quickly and thoroughly. Liberal clearance to prevent dirt interfering with valve action.

Nickel Plated
Non-Spitting
Quick Venting
Non-Adjustable

No. 40 Angle—⅛"
No. 41 Straight Shank—⅛"
No. 43 Straight Shank—¼"
No. 45 Straight Shank Basement—⅜"x¾" (double thread)

IDEAL AIR VENTS



No. 500
Ideal Airid Automatic Air Valve
⅛-inch connection.
Automatically rids radiator of air.

No. 510—Ideal Vac-Airid

Perfect air seal permits free venting and prevents air from re-entering through valve. ⅛-inch connection.

Ideal Basement Vents
No. 815—¾"
No. 820—⅜"

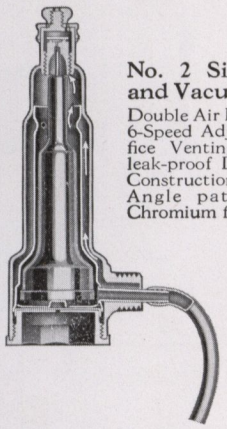
Vac-Vent
No. 822—¾"

Hoffman Venting Valves

For All Types of Steam Heating Systems

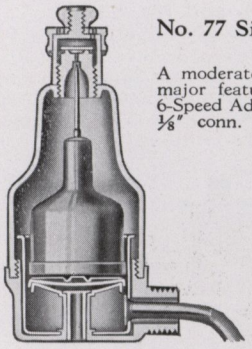
Hoffman Radiator Valves now feature a Six-Speed Adjustable Orifice Venting Port, which for the first time permits accurate "balancing" of one-pipe steam or vacuum systems. Hoffman Vacuum Valves are noted for their patented Double Air Locks which assure maximum vacuums and hence greatest comfort and fuel economy. Every venting requirement of steam heating systems is covered by this complete line of leak-proof, precision-built valves.

Maximum Guaranteed Operating Pressure For All Valves 10 lbs.



No. 2 Siphon Air and Vacuum Valve

Double Air Locked, with 6-Speed Adjustable Orifice Venting Port and leak-proof Double Shell Construction. ⅛" conn. Angle pattern only. Chromium finish.



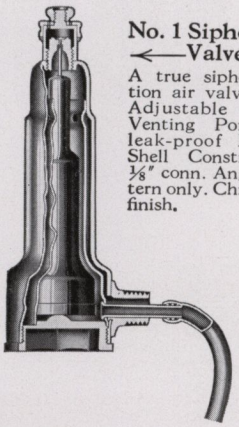
No. 77 Siphon Air and Vacuum Valve

A moderately priced valve with all the major features of the No. 2, including 6-Speed Adjustable Orifice Venting Port. ⅛" conn. Chromium finish.

No. 78 →

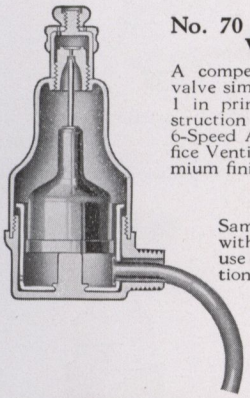
Same as No. 77 but with straight shank for use on concealed radiation. Chromium finish.





No. 1 Siphon Air ←— Valve

A true siphonic-action air valve, with Adjustable Orifice Venting Port and leak-proof Double Shell Construction. ⅛" conn. Angle pattern only. Chromium finish.

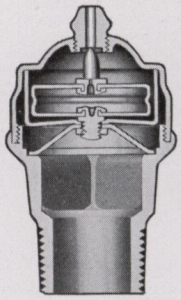


No. 70 Siphon Air Valve

A competitively priced valve similar to the No. 1 in principles of construction and operation. 6-Speed Adjustable Orifice Venting Port, Chromium finish.

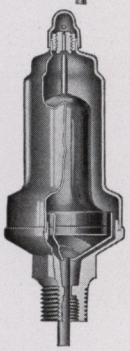
No. 71

Same as No. 70 but with straight shank for use on concealed radiation. Chromium finish.



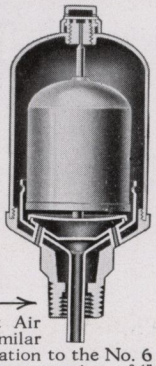
No. 4 Quick Vent Valve

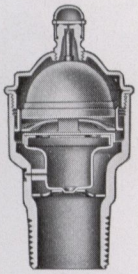
For venting steam mains of one and two-pipe systems which end 18" above boiler water line. No. 4 Valve will not close against water. Conn. ¼", ¾".



No. 5 Quick Vent Float ←— Air Valve

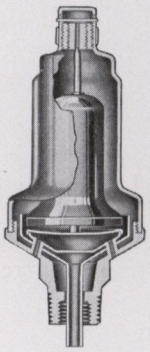
For venting steam mains which end less than 18" above boiler water line or other conditions where water may be encountered. Double Shell Construction. Conn. ⅜" female, ¾" male.





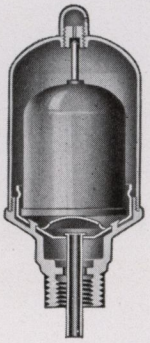
No. 16 Vacuum Vent Valve

For venting steam mains of one-pipe vacuum systems which end 18" or more above boiler water line. Double Air Locked. Conn. ¾".



No. 6 Quick Vent Float Air and Vacuum Valve

For venting steam mains of one-pipe vacuum systems where water is encountered. Double Air Locked and Double Shelled. Conn. ⅜" female, ¾" male.



No. 75 Float Air ←— Valve

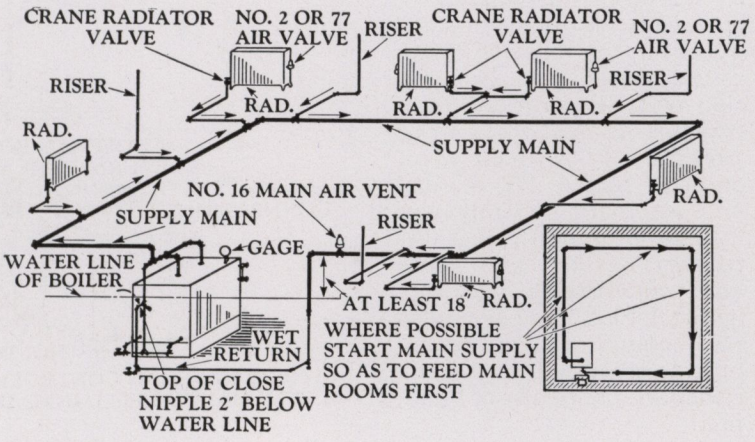
A fast venting valve for mains, coils and unit heaters of one pipe steam systems. Conn. ⅜" female, ¾" male.

No. 76 Vacuum Vent Valve →

A quick-venting Float Air and Vacuum Valve, similar in operation and application to the No. 6 Valve. Double thread connection, ¾" male, ⅜" female.

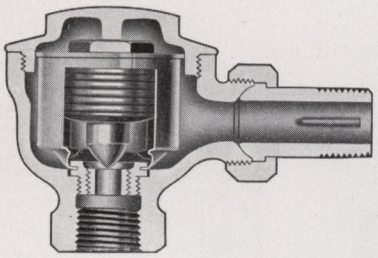
Advantage of Hoffman Vacuum Systems

The performance and economy of a two-pipe vapor system can be closely approached by installing No. 2 Hoffman Vacuum Valves on the radiators and Hoffman Vacuum Vent Valves on the mains of a simple one-pipe gravity steam job. The savings made in fuel quickly pay for the slight extra cost of installing these valves and a great improvement in heating comfort is assured. The system becomes more adaptable to weather changes and maintains comfort over long periods without attention to the fire.



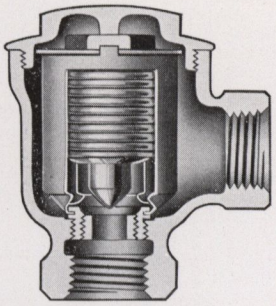
Hoffman Thermostatic Radiator Traps

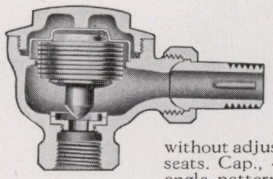
Hoffman Radiator Traps are featured by Bellows-type Thermostats, formed under 500 pounds internal pressure by a special hydraulic process which automatically rejects imperfect units. This process assures bellows folds of uniform metal thickness and freedom from tool marks — two factors essential to accurate performance and long life. Hoffman Traps operate on narrow temperature differentials, providing rapid and thorough removal of air and condensate.



No. 8A and No. 9A

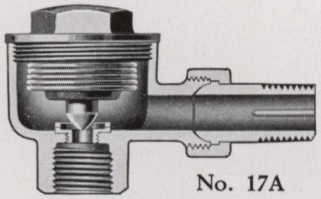
Nos. 8A and 9A have Bellows Thermostat, Valve Pin and Seat combined in a single unit, replaceable without adjustment. Nickel-silver Valve Pin and Seat. Capacity, 8A—400 sq. ft.; 9A—700 sq. ft. Conn., 8A—½"x½", ¾"x¾", ½"x¾"; 9A—¾"x¾" without union. No. 9A furnished with union at extra charge. Max. Press. 25 lbs.





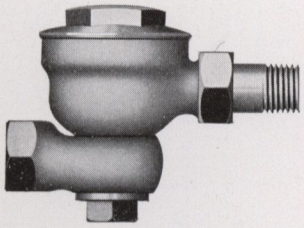
No. 18A

Cage-mounted Bellows Thermostat, interchangeable without adjustment. Bronze renewable seats. Cap., 400 sq. ft. Connections, angle pattern ½"x½", ¾"x¾", ½"x¾". Swivel pattern ½"x½". Max. Press. 25 lbs.



No. 17A

Bellows Thermostat attached to cap and interchangeable without adjustment. Bronze renewable seat. Cap., 200 sq. ft. Connections, angle pattern ½"x½", ½"x¾". Swivel pattern ½"x½". Max. Press. 15 lbs.



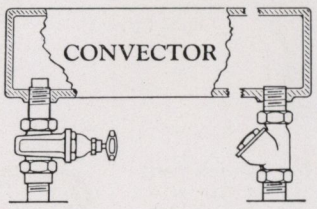
Swivel Connections

Furnished without extra cost on ½" sizes No. 8A, 17A and 18A, giving straightway, R. or L. hand patterns or intermediate angles.



No. 17V

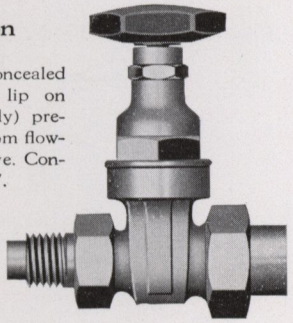
A vertical trap designed for concealed radiators having a bottom outlet. Cap. 200 sq. ft. Connections ½" x ½". Max. Press. 15 lbs.



¾" Hoffman Double Union Gate Valve with extension lip, and No. 17V Trap installed on concealed radiator.

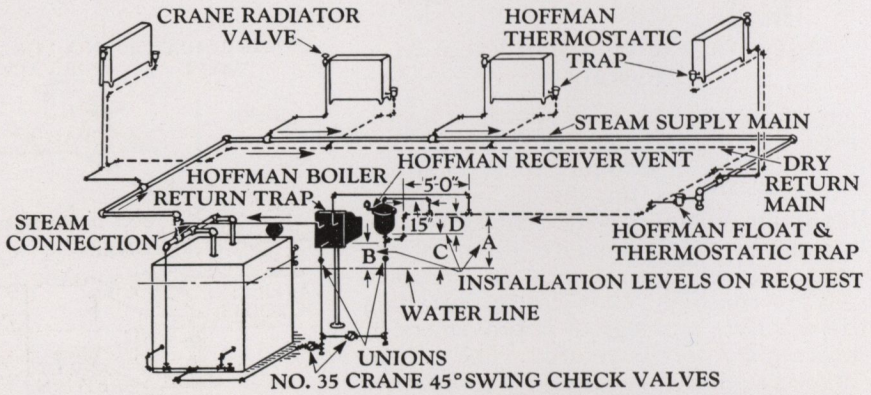
Double Union Gate Valve

Adapted to use on concealed radiation. Extension lip on tailpiece (¾" size only) prevents condensation from flowing back through valve. Connections ¾", 1", 1¼".



Hoffman Controlled Heat

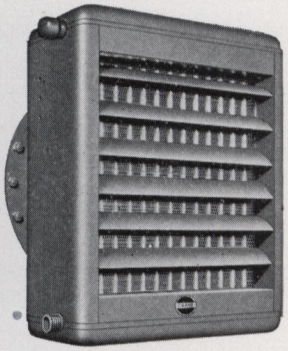
Hoffman Traps with Packless Modulating Valves and Hoffman basement specialties, combined with properly sized Crane boiler and Crane radiation, comprise Hoffman Controlled Heat. This vapor-vacuum system offers a strictly modern heating method, noted for comfort and economy of operation. Correctly sized orifices in the radiator valves assure a balanced distribution of steam and the temperature in any room can be varied at will without effect on other rooms. The manual and automatic controls used in this system make it extremely flexible, and hence both comfortable and economical. Hoffman Controlled Heat equipment can be applied to any two-pipe system, either automatically or hand-fired.



TYPICAL HOFFMAN CONTROLLED HEAT SYSTEM USING BOILER RETURN TRAP SUPPLY MAIN DRIPPED INTO DRY RETURN. NO-PRESSURE RETURN

CRANE SPEED HEATERS

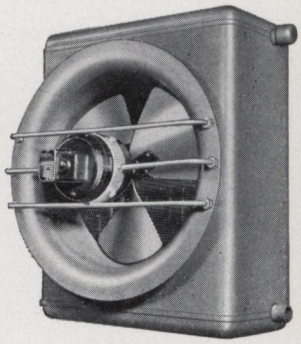
PUTS AIR TO WORK



Front view Crane Speed Heater, showing adjustable louvres.

Heating of any kind is an air-moving job, and the function of SPEED HEATERS is to put heated air **where** it is wanted, **when** it is wanted . . and they do that almost **instantaneously.**

The front and back views of the Crane Speed Heaters are illustrated on this page. Their attractive modernistic design suits them for installation wherever appearance must be considered. Because they are quiet in operation, Speed Heaters are ideal for use in showrooms, factory offices, small stores, restaurants and lobbies of public and commercial buildings. They are likewise recommended for garages, service stations, factories, warehouses, airplane hangars, terminals, etc. Speed Heaters are also adapted for heating gymnasiums, auditoriums or any interiors where large groups of people gather, as they may be run at high speed for quick warming and then operated at a lower speed after the halls are occupied and the heating load is not so great due to the warmth contributed by the body heat of the occupants.



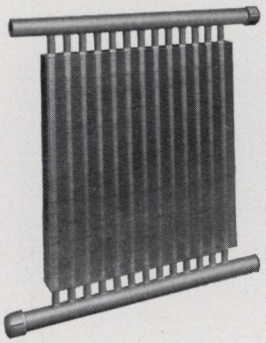
Rear view Crane Speed Heater, showing Streamline inlet.

Speed Heaters are exceptionally flexible. They can be placed in most advantageous positions to blanket effectively cold walls and doorways, create efficient circulation and keep the entire area evenly and adequately heated. When installed with automatic controls, temperatures can be maintained at a nearly constant level during working hours. The wide range of sizes permits a selection of sizes to meet any heating requirements. Low temperature units can be furnished where larger volumes of air at lower final temperatures are required.

Speed Heaters are easy to install. They are never in the way, take up no wall or floor space. Steam supply and return headers have threaded nipples on both ends so that the unit can be placed wherever desired. Steam and return lines can be connected to either side of the unit.

HEATING ELEMENT

The heating element is carefully designed, built to give maximum heat transfer and stand up under severe conditions. It is extremely rugged and guaranteed to withstand pressures up to 200 lbs. per square inch. The copper tubes are brazed into the copper headers so that both are a homogeneous unit, and therefore trouble-proof. It should be remembered, however, that the heating element is made of copper with aluminum fins and should not be installed where there is anything either in the atmosphere or the steam system which will attack copper.



Heating Element Showing Tubes Brazed into Headers.

HORIZONTAL LOUVRES

These are a series of adjustable deflectors that can be set to direct the air flow at any downward angle. They are standard equipment on all Speed Heaters.

HANDY HANGERS

Speed Heaters may be hung from ceilings, beams, trusses, columns or walls. The hangers provided are of soft steel, easily formed in a vise to fit into almost any existing condition.

LOW TEMPERATURE SPEED HEATERS

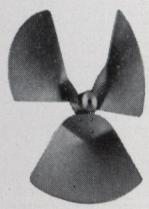
These units are especially adaptable to operation on high pressure steam systems. The aluminum fins or extended heating surface are widely spaced resulting in lower final temperature of air delivered. This compensates for higher temperature of steam, thereby insuring more efficient distribution of the heated air.

FAN AND INLET

The propeller fan used in this modern Speed Heater is constructed with three die-formed blades securely riveted to a cast hub. These die-formed blades have a camber and increasing pitch which has been carefully determined by extensive research, making it possible to design a fan wheel with variable pitch blades having a true warped surface.

"Variable Pitch" means simply that the angle of the blade increases gradually from a minimum at the circumference to a maximum at the hub. As a result of this design, the air moved by the fan is distributed through the radiator with maximum efficiency and quietness.

The modern trend in propeller fan design is toward fewer and broader blades, resulting in higher efficiencies with no appreciable loss of capacity. A three-bladed fan has all the advantages gained from the use of the two-bladed airplane type, and at the same time is inherently well balanced and has the distinct advantage of being much quieter in operation.

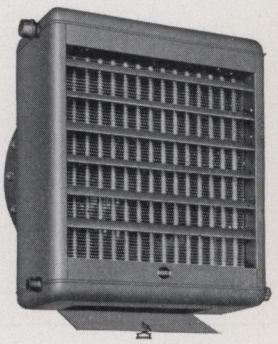


Speed Heater Propeller Fan.

The fan is mounted in a carefully formed whirl-free inlet which guides the air to the propeller with a minimum of shock and turbulence. The inlet is similar in design and proportion to those used so successfully on several important lines of centrifugal fans.

TEXTILE MILL SPEED HEATERS

Unit Heaters are particularly applicable to heating textile mills. Low operating cost, elimination of spotty humidification by accelerated recirculation of the room air, and low installation cost are foremost advantages. Installed directly behind the atomizing heads, they absorb the atomized moisture and distribute it evenly throughout the room thus assisting in maintaining uniform humidity. The fins or extended heating surface of Crane Mill Heaters are widely spaced to facilitate cleaning. There is also a clean-out door in the bottom of the casing. Lint which may collect on the heating surface can be blown free by compressed air from the outlet side. It will settle in the bottom of the casing where it can be emptied into a burlap bag hung below. Even under the worst conditions, cleaning twice a month is generally sufficient.



Textile Mill Speed Heater.

CAPACITY TABLE—STANDARD SPEED HEATERS

HOW TO USE THE CAPACITY TABLES:

1. In order to use the following capacity tables, it is essential to know the steam pressure and entering air temperature. Working conditions most often encountered on the job or in specifications are 2 lbs. steam pressure and 60° entering air. Practically any condition can be computed from the constants table. Multiply the B.T.U. capacity of the unit at 2 lbs. steam pressure and 60° entering air, as shown on the capacity tables by the proper constant.

EXAMPLE: To find the B.T.U. capacity of a size No. 100 Speed Heater at 1080 R.P.M. with 50 lbs. steam pressure and 80° entering air, multiply the standard rating of this size unit (2 lbs. steam 60° entering air) or 100,500 by 1.338 (constant for 50 lbs. steam, 80° entering air). The answer is 134,469 B.T.U. per hour. If, on the other hand, specifications give B.T.U. rating required for a heater operating at conditions not shown on the capacity table, reverse the process and divide the specified B.T.U.'s by the constant for the condition given. The result is the rating in B.T.U.'s for 2 lbs. steam, 60° entering air. By this method the size of Speed Heater required for any job can be quickly determined.

2. Ratings are for free air discharge. Steam pressure in the capacity tables is entering steam pressure at the unit. All ratings are the results of tests made under the Standard Test Code for Unit Heaters adopted by the Industrial Heater Association and the American Society of Heating and Ventilating Engineers.

Note: Capacities are for 2 lbs. steam pressure, 60° entering air temperature. To determine the capacity of any Standard Unit under conditions other than those shown below refer to the constants table. At 0° entering air, 5 lbs. steam must be maintained in the unit.

Size No.	Motor Speeds	Motor R.P.M.	Motor H.P.	C.F.M. at 70°	Outlet Velocity	E.D.R. Sq. Ft.	B.T.U. Per Hour	Final Temp.	Cond. Lbs. Per Hour	Max. Height, Feet
25	Single: 1080	1080	1/100	398	431	108	25,800	119.7	26.7	7
	Two: 1080–865	865		314	342	90	21,600	123.3	22.4	
	Three: 1080–865–600	600		214	238	73	17,550	135.4	18.2	
40	Single: 1080	1080	1/50	700	526	172	41,500	114.5	43.0	7
	Two: 1080–865	865		566	428	150	36,000	118.5	37.3	
	Three: 1080–865–600	600		381	293	117	28,200	128.0	29.2	
55	Single: 1080	1080	1/30	979	590	238	57,000	113.5	59.0	8
	Two: 1080–865	865		777	471	199	47,700	116.5	49.4	
	Three: 1080–865–600	600		529	325	155	37,100	124.5	38.4	
75	Single: 1080	1080	1/20	1336	638	317	76,000	112.3	78.6	8
	Two: 1080–865	865		1055	507	265	63,600	115.4	65.8	
	Three: 1080–865–600	600		724	352	205	49,200	122.5	50.9	
85	Single: 1080	1080	1/20	1220	538	357	85,600	124.5	88.6	8
	Two: 1080–865	865		976	433	301	72,200	128.0	74.8	
	Three: 1080–865–680	680		678	303	224	53,800	133.0	55.7	
100	Single: 1080	1080	1/15	1580	690	419	100,500	118.5	104.0	9
	Two: 1080–865	865		1265	557	365	87,600	123.7	90.6	
	Three: 1080–865–680	680		1000	445	308	74,000	128.0	76.6	
115	Single: 1080	1080	1/15	1740	596	478	114,500	120.5	118.5	9
	Two: 1080–865	865		1393	481	414	99,200	125.5	102.7	
	Three: 1080–865–680	680		1096	381	345	82,800	129.5	85.7	
125	Single: 1080	1080	1/6	2050	696	523	125,500	116.3	129.8	9
	Two: 1080–865	865		1645	566	462	110,900	122.0	114.7	
	Three: 1080–865–680	680		1292	448	389	93,400	126.5	96.7	
135	Single: 1080	1080	1/6	2060	632	561	134,500	120.2	139.2	12
	Two: 1080–865	865		1650	510	487	116,700	125.0	120.8	
	Three: 1080–865–680	680		1297	408	405	97,300	129.0	100.7	
150	Single: 1080	1080	1/6	2550	772	628	150,700	114.5	156.8	15
	Two: 1080–865	865		2040	625	558	134,000	120.5	138.7	
	Three: 1080–865–680	680		1610	500	479	115,000	125.8	119.0	
175	Single: 1080	1080	1/4	3060	836	736	176,600	113.0	182.5	15
	Two: 1080–865	865		2445	675	648	155,500	118.5	160.8	
	Three: 1080–865–680	680		1930	538	561	134,700	124.2	139.4	
200	Single: 1080	1080	1/4	3620	894	837	200,700	111.0	207.5	15
	Two: 1080–865	865		2900	723	745	178,800	116.7	185.5	
	Three: 1080–865–680	680		2280	575	650	156,000	123.0	161.5	
250	Single: 820	820	1/3	4180	781	1045	251,000	115.2	259.5	15
	Two: 820–680	680		3465	652	925	222,000	119.0	229.8	
	Three: 820–680–565	565		2870	545	829	199,000	123.8	206.0	
300	Single: 820	820	1/3	5200	838	1253	300,500	113.2	311.0	15
	Two: 820–680	680		4310	700	1116	268,000	117.2	277.2	
	Three: 820–680–565	565		3590	588	1007	242,000	122.0	250.0	

CAPACITY TABLE

LOW TEMPERATURE AND TEXTILE MILL TYPE SPEED HEATERS

Note: Capacities are for 2 lbs. steam pressure, 60° entering air temperature.

Size No.	Motor Speeds	Motor R.P.M.	Motor H.P.	C.F.M. at 70°	Outlet Velocity	E.D.R. Sq. Ft.	B.T.U. per Hour	Final Temp.	Cond. Lbs. per Hour
55	Single: 1080	1080	1/30	999	579	142.5	34,200	91.5	35.4
	Two: 1080–865	865		793	461	119.2	28,620	93.5	29.6
	Three: 1080–865–600	600		540	317	92.8	22,270	97.9	23.0
75	Single: 1080	1080	1/20	1362	626	190.0	45,600	90.7	47.2
	Two: 1080–865	865		1075	497	159.0	38,170	92.6	39.5
	Three: 1080–865–600	600		738	344	122.8	29,500	96.8	30.5
85	Single: 1080	1080	1/20	1245	524	214.2	51,400	97.9	53.2
	Two: 1080–865	865		996	421	180.3	43,300	100.0	44.8
	Three: 1080–865–680	680		692	296	134.5	32,300	102.9	33.4
100	Single: 1080	1080	1/15	1611	668	251.5	60,350	94.4	62.8
	Two: 1080–865	865		1290	543	218.7	52,500	97.4	54.3
	Three: 1080–865–680	680		1020	433	185.0	44,400	100.0	45.9
115	Single: 1080	1080	1/15	1775	582	286.5	68,750	95.6	71.1
	Two: 1080–865	865		1420	468	248.0	59,500	98.5	61.6
	Three: 1080–865–680	680		1118	370	207.0	49,650	100.9	51.4
125	Single: 1080	1080	1/6	2090	681	313.7	75,300	93.1	77.9
	Two: 1080–865	865		1678	552	277.5	66,600	96.5	68.9
	Three: 1080–865–680	680		1317	475	233.7	56,100	99.1	58.0
135	Single: 1080	1080	1/6	2100	614	336.5	80,750	95.3	83.6
	Two: 1080–865	865		1682	494	292.0	70,100	98.5	72.5
	Three: 1080–865–680	680		1322	395	243.0	58,400	100.6	60.4
150	Single: 1080	1080	1/6	2600	757	377.0	90,450	92.0	93.6
	Two: 1080–865	865		2080	610	335.0	80,400	95.6	83.2
	Three: 1080–865–680	680		1642	486	287.5	69,000	98.7	71.4
175	Single: 1080	1080	1/4	3120	819	441.5	106,000	91.2	109.8
	Two: 1080–865	865		2494	659	389.0	93,300	94.4	96.6
	Three: 1080–865–680	680		1968	523	336.5	80,800	97.8	83.6
200	Single: 1080	1080	1/4	3690	879	502.0	120,500	90.0	124.6
	Two: 1080–865	865		2958	708	447.0	107,300	93.3	111.0
	Three: 1080–865–680	680		2325	561	390.0	93,600	97.0	96.9
250	Single: 820	820	1/3	4260	766	628.0	150,700	92.5	156.0
	Two: 820–680	680		3535	637	555.0	133,200	94.7	137.8
	Three: 820–680–565	565		2925	531	498.0	119,500	97.5	123.7
300	Single: 820	820	1/3	5300	823	751.0	180,300	91.3	186.5
	Two: 820–680	680		4395	684	670.0	160,800	93.6	166.4
	Three: 820–680–565	565		3660	573	605.0	145,200	96.5	150.2

CAPACITY OF SPEED HEATERS EQUIPPED WITH 25 CYCLE MOTORS

2 Lbs. Steam Pressure, 60° Entering Air Temperature

Size No.	R.P.M.	C.F.M.	B.T.U. per Hour	Final Temp.	Cond. Lbs. per Hour
25	1425	526	31,170	114.5	32.2
40	1425	925	50,800	110.5	52.6
55	1425	1292	68,150	108.5	70.6
75	1425	1762	90,100	107.0	93.3
85	1425	1610	101,500	118.0	105.2
100	1425	2085	116,500	111.7	120.5
115	1425	1610	133,500	113.5	138.2
125	1425	2705	145,500	109.5	150.6
135	1425	2720	155,200	112.5	160.5
150	1425	3365	174,500	107.7	180.6
175	1425	4040	205,000	106.7	212.0
200	1425	4780	239,000	106.0	247.5
250	715	3645	189,000	117.7	195.6
300	715	4535	276,600	116.0	286.0

SPEED HEATER MOTORS

Speed heater motors are single voltage and are totally enclosed except for Size 25, which is semi-enclosed. They must not be used where air passing over the motor exceeds 100° F.

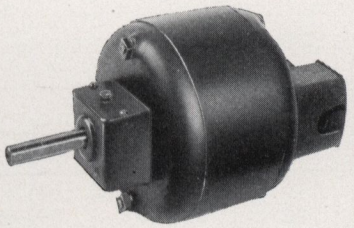
Motors used on Sizes 25-85 inclusive, 50 and 60 cycle, single phase are the shaded pole type, waste packed, sleeve bearing. Two and three speeds are obtained by using a reactance type speed control with the single speed motor. Control is equipped with either two or three speed selector switch with off point.

Direct current motors for these sizes are series wound, totally enclosed, waste packed, sleeve bearing, constant speed type. Variable speed on the above D.C. motors is obtained by using the constant speed motor with a rheostat type control with off-point.

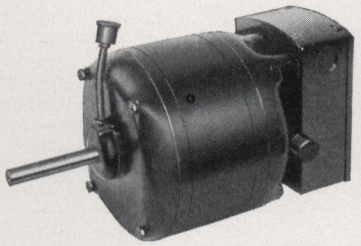
Single phase motors used on sizes 100-300 inclusive, 50 and 60 cycle, are condenser type. Motors can be supplied in either two or three speed.

Sizes 100-300 inclusive, 50 and 60 cycle three phase, are squirrel cage type. One or two speed motors are furnished. When a two speed motor is used, a two speed snap switch with off-point is supplied.

Direct current motors, sizes 100-300 are series wound, constant speed type. Variable speed is obtained by using a rheostat type of control.



Shaded Pole Motor for Sizes 25-85 (Single Phase)



Condenser Type Motor for Sizes 100-300 (Single Phase)

MOTOR DATA

To obtain proper thermal element, use the full load ampere rating from the table below and add 10%. Select the nearest commercial thermal unit to this rating. (See standard controller catalogs.) We recommend the use of proper size thermal protection for each unit. Line switches, fuses or thermal cutouts are not part of standard equipment.

	Size No.	Volts	Full Load Amps.	Fuse Amps.	Volts	Full Load Amps.	Fuse Amps.
Single Phase 60 Cycles	25	110/120	.56	1.00	220/440	.28	1.00
	40	110/120	.83	1.50	220/440	.42	1.00
	55	110/120	1.80	2.00	220/240	.90	1.50
	75, 85	110/120	2.00	3.00	220/240	1.00	2.00
	100, 115	110/120	1.30	2.00	220/240	.70	1.50
	125, 135	110/120	1.90	3.00	220/240	.90	1.50
	150	110/120	2.20	3.00	220/240	1.10	1.50
	175	110/120	3.20	5.00	220/240	1.40	2.00
	200	110/120	3.40	5.00	220/240	1.60	2.00
	250	110/120	3.80	5.00	220/240	1.90	3.00
	300	110/120	4.40	10.00	220/240	2.30	4.00
Three Phase 60 Cycles	100, 115	220	.70	1.50	440	.40	1.00
	125, 135	220	.80	1.50	440	.40	1.00
	150	220	.90	1.50	440	.50	1.00
	175	220	1.20	2.00	440	.60	1.50
	200	220	1.30	3.00	440	.60	1.50
	250	220	1.00	1.50	440	.50	1.00
	300	220	1.10	1.50	440	.60	1.00
Direct Current	25	115	.40	1.00	230	.20	1.00
	40	115	.55	1.00	230	.27	1.00
	55	115	.84	1.50	230	.42	1.00
	75, 85	115	1.10	2.00	230	.55	1.00
	100, 115	115	1.10	2.00	230	.55	1.00
	125, 135	115	1.30	3.00	230	.65	1.50
	150	115	1.56	3.00	230	.78	1.50
	175	115	2.30	4.00	230	1.15	2.00
	200	115	2.60	4.00	230	1.30	2.00
	250	115	3.40	10.00	230	1.70	4.00
	300	115	3.90	10.00	230	1.95	4.00

SPECIFICATIONS FOR CRANE SPEED HEATERS

Furnish and install propeller type Crane Speed Heaters of size and capacity shown on plans.

The heating element shall consist of copper tubes with aluminum fins assembled to tubes by the force fit method. Tubes to be expanded to insure positive and lasting bond between tubes and fins.

Headers are to be of copper and tubes are to be brazed to same.

Heating element shall be tested for 200 lbs. steam pressure or 1000 lbs. of hydrostatic pressure.

The casing shall be made of not less than 20 gauge furniture steel, painted green. Casing shall have rounded corners and whirl-free inlet.

Propeller fan shall be of the three-bladed type having die formed blades with a camber and increasing pitch. Blades to have a true warped surface with the angle increasing from a minimum at circumference to a maximum at hub.

Units shall be equipped with adjustable louvres arranged to deflect air toward the floor.

Provision shall be made so that steam and return can be connected to either or opposite sides of the units.

Units having a capacity of 200,700 B.T.U. or less shall have a top speed of not more than 1150 R.P.M. Units having a B.T.U. capacity greater than this to have a top speed not exceeding 860 R.P.M.

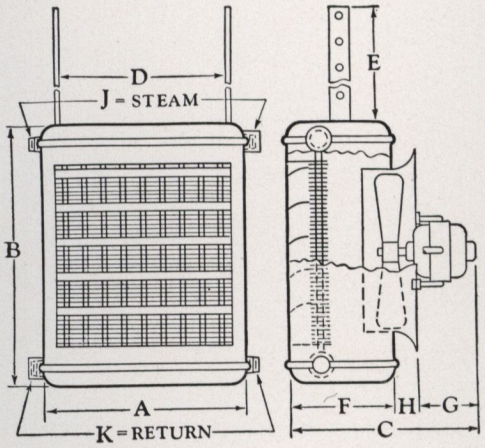
C.F.M. shall not be less and final temperature shall not be higher than shown on plans for each unit.

Motors shall be wound for ___ volts, ___ cycles and phase.

Constants for Determining Capacities for Various Steam Pressures and Entering Air Temperatures

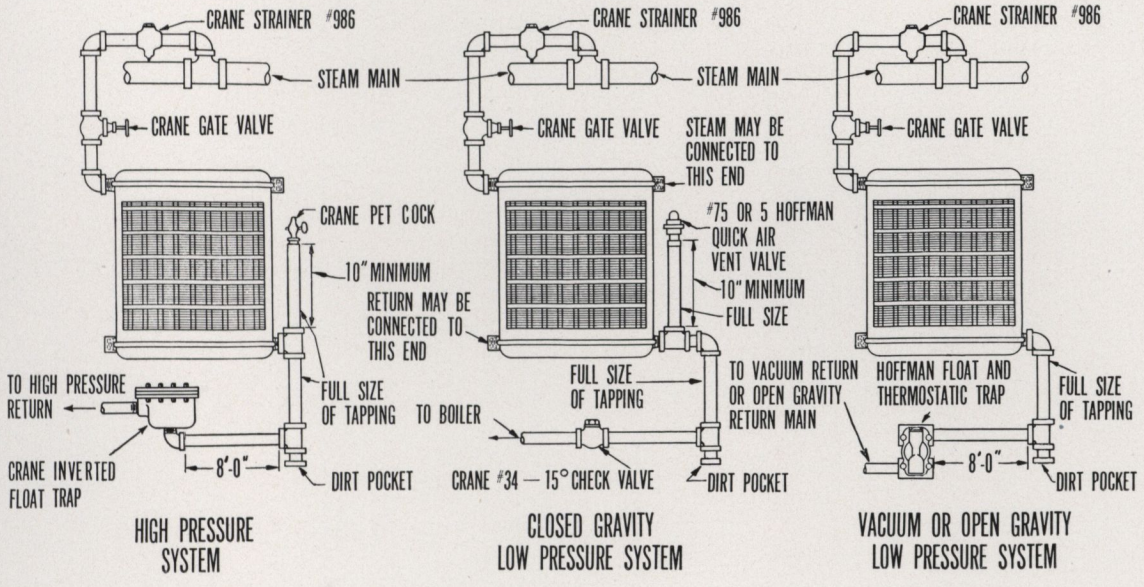
Steam Pressure Pounds per Square Inch	TEMPERATURE OF ENTERING AIR											
	—10°	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0	1.538	1.446	1.369	1.273	1.191	1.110	1.034	0.956	0.881	0.809	0.739	0.671
2	1.585	1.495	1.405	1.320	1.237	1.155	1.078	1.000	0.926	0.853	0.782	0.713
5	1.640	1.550	1.456	1.370	1.289	1.206	1.127	1.050	0.974	0.901	0.829	0.760
10	1.730	1.639	1.545	1.460	1.375	1.290	1.211	1.131	1.056	0.982	0.908	0.838
15	1.799	1.708	1.614	1.525	1.441	1.335	1.275	1.194	1.117	1.043	0.970	0.897
20	1.861	1.769	1.675	1.584	1.498	1.416	1.333	1.251	1.174	1.097	1.024	0.952
30	1.966	1.871	1.775	1.684	1.597	1.509	1.429	1.346	1.266	1.190	1.115	1.042
50	2.134	2.035	1.936	1.845	1.755	1.666	1.582	1.498	1.416	1.338	1.262	1.187
75	2.283	2.183	2.085	1.990	1.896	1.808	1.721	1.635	1.552	1.472	1.392	1.316
100	2.409	2.307	2.204	2.108	2.015	1.927	1.836	1.749	1.663	1.581	1.502	1.424
125	2.510	2.409	2.305	2.205	2.114	2.022	1.932	1.842	1.757	1.675	1.592	1.513
150	2.603	2.496	2.395	2.296	2.198	2.105	2.015	1.925	1.837	1.755	1.672	1.592
175	2.685	2.580	2.472	2.372	2.275	2.182	2.090	2.000	1.912	1.826	1.743	1.664
200	2.753	2.648	2.542	2.437	2.341	2.245	2.154	2.062	1.974	1.889	1.804	1.722

Dimensions for Crane Speed Heaters



Size	A	B	C	D	E	F	G	H	J	K	Actual Wt.	Crated Wt.
25	15 1/8	19 3/4	13 1/16	12 1/4	15	7 7/8	3 11/16	1 1/2	1	1	30	40
40	17 5/8	22 1/4	14 5/8	14 3/4	20 1/2	8 3/4	4 1/8	1 3/4	1	1	40	50
55	18 7/8	24 1/2	16 1/4	16	21 1/2	9 3/8	4 7/8	2	1	1	55	70
75	21 3/8	26	17 5/8	18 1/2	24	10	5 7/16	2 3/16	1	1	75	95
85	24 9/16	26 13/16	19 7/16	21 5/16	14 5/8	11 1/4	5 7/16	2 3/4	1 1/4	1 1/4	110	150
100	24 9/16	26 13/16	24 3/8	21 5/16	14 5/8	11 1/4	10 3/8	2 3/4	1 1/4	1 1/4	115	155
115	25 13/16	30 11/16	24 13/16	22 9/16	14 5/8	11 5/8	10 3/8	2 13/16	1 1/4	1 1/4	125	170
125	25 13/16	30 11/16	24 3/4	22 9/16	14 5/8	11 5/8	10 5/16	2 13/16	1 1/4	1 1/4	130	175
135	27 1/16	32 1/2	25 5/8	23 13/16	14 5/8	12 1/4	10 5/16	3 1/16	1 1/2	1 1/2	135	185
150	27 1/16	32 1/2	25 7/16	23 13/16	14 5/8	12 1/4	10 1/8	3 1/16	1 1/2	1 1/2	140	190
175	28 5/16	33 3/4	25 3/4	25 1/16	14 5/8	12 1/2	10 1/4	3	1 1/2	1 1/2	155	220
200	29 9/16	35 7/8	26 1/2	26 5/16	14 5/8	13 1/8	10	3 3/8	2	2	180	260
250	34 9/16	38 7/8	31 5/8	31 5/16	14 5/8	15 1/4	12 3/8	4	2	2	250	330
300	37 1/16	40 7/8	32 3/8	33 13/16	14 5/8	15 7/8	12 3/8	4 1/4	2	2	270	360

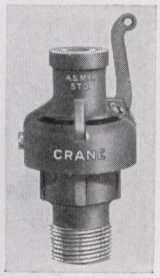
Piping Diagrams for Crane Speed Heaters



CRANE POP-SAFETY VALVES — MALLEABLE IRON

LOW PRESSURE A. S. M. E.

Non-Adjustable—Regularly set at 5, 10 and 15 Pounds



No. 1165
Top Discharge
Sizes 1 to 2 inches



No. 1166
Bottom Discharge
Sizes ¾ to 2 inches



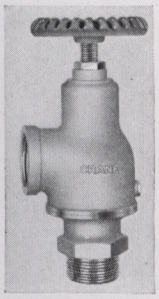
No. 1168
Side Outlet
Sizes ¾ to 4 inches

These valves, as recommended for service on heating boilers, are regularly set at 15 lbs. pressure and can be furnished for any pressure specified between 5 and 25 lbs. They comply with the A. S. M. E. Heating Boiler Code when set for pressure between 5 and 15 lbs.

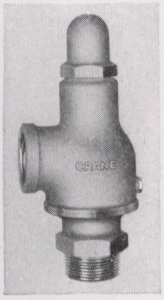
CRANE BRASS RELIEF VALVES

For Gas—5 to 250 Pounds, 100° F.

For Oil and Water—5 to 300 Pounds, 100° F.



No. 1155
No. 1195
(Female Inlet)



No. 1156
No. 1196
(Female Inlet)



No. 1157
With Cap



No. 1197
With Lock-up Cap

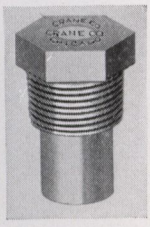
(Adjustable to 20% above and below original set pressure)

Sizes.....**⅜ to 2 inch**

FUSIBLE PLUGS



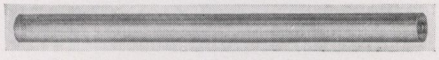
No. 750



No. 752

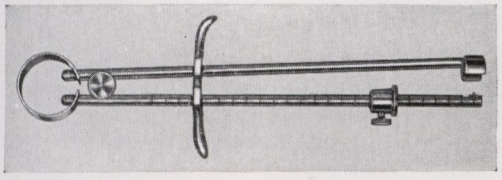
Sizes.....**⅜ to 1½ inch**

GAUGE GLASSES



Diameter.....**½, ⅝ or ¾ inch**

Length.....**10 to 24 inches**

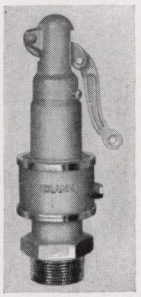


GLASS TUBE CUTTERS

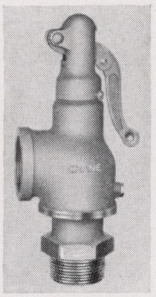
CRANE POP-SAFETY VALVES — BRASS

A. S. M. E.

From 3 to 250 Pounds Pressure



No. 1153—For Steam
No. A1159—For Air

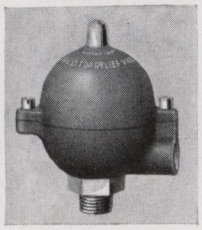


No. 1154—For Steam
No. A1161—For Air or Gas

Sizes.....**⅜ to 2½ inch**

Nos. 1153, 1154, A1159 and A1161 Brass Pop Safety Valves are in accord with the A. S. M. E. Boiler Code specifications for fire tube boilers and unfired pressure vessels. They also may be used in Marine service, on receivers and pipe lines. Protection on stationary and portable boilers, steam receivers, and pipe lines becomes a certainty when these Crane Pop Safety Valves are in use.

RED TOP RELIEF VALVES

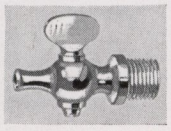


No. 1—For Domestic Hot Water Supply Systems. Adjustable from 50 to 130 Pounds Pressure. ½" Inlet and Outlet.

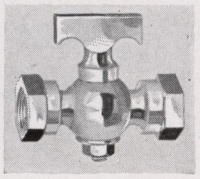
No. 2—For Hot Water Heating Systems. Relieves at 30 Pounds Pressure. 1" Inlet and Outlet.

No. 3—Same as No. 2, except ½" Inlet and Outlet.

STEAM GAUGE AND AIR COCKS

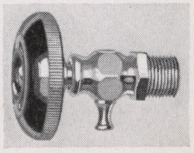


No. 700
Sizes
⅛ to ½ inch

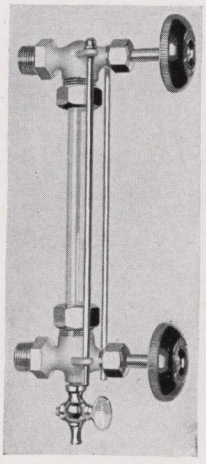


No 712
Sizes
⅛ to ⅜ inch

BRASS TRY COCK



*No. 731
⅜ Inch



*No. 625

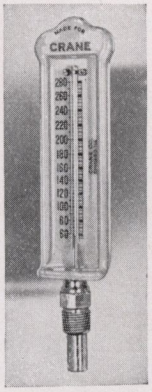
CRANE WATER GAUGE

*No. 625

Low Pressure Water Gauge. ½-inch connections; ⅝-inch Glass; 8 inches Center to Center of cocks.

*No. 625 Gauge and No. 731 Try Cock are part of regular equipment on Crane Boilers.

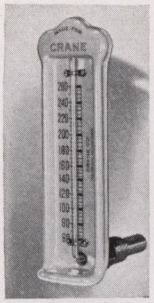
THERMOMETERS AND GAUGES



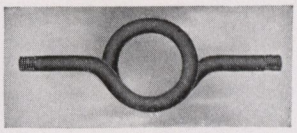
C 39880

IMPROVED HOT WATER THERMOMETERS

White enameled scale and frame.
Cut steel non-breakable connection and shank.
½-inch thread; 6-inch scale.
Straight, 10 inches over all. Angle, 7½ inches over all.



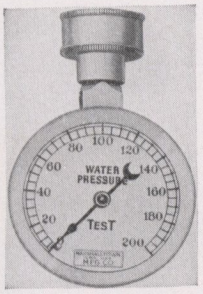
C 39882



C 39883

PIGTAIL SIPHON FOR STEAM GAUGES

¼-inch threads. Straight or angle.
Iron or Brass.

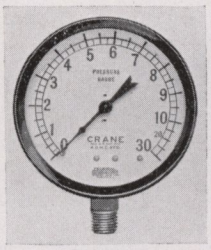


C 39884

WATER PRESSURE TEST GAUGE

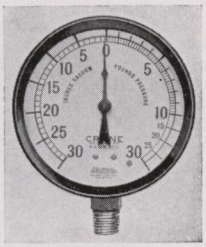
For the plumbers' and steamfitters tool kit. Has standard water faucet connection. Pressure reading to 200 pounds. Ideal for the proper selection and setting of relief valves, flush valves, water pressure regulators and other equipment.
Attractively finished in red. Non-breakable crystal front. Made in 2½" size only.

GAUGES FOR CRANE BOILERS



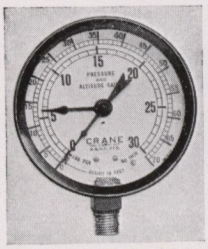
C 39885

Crane 3½-inch steel case steam heating gauge. Graduated 0 to 10 pounds, retarded 10 to 30 pounds.



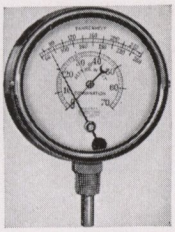
C 39889

Crane 3½-inch steel case compound pressure and vacuum gauge. Graduated 30 inches vacuum to 30 pounds pressure, retarded 10 to 30 pounds.



C 39892

Crane 3½-inch steel case compound altitude gauge. Graduated to 30 pounds and 70 ft. head.

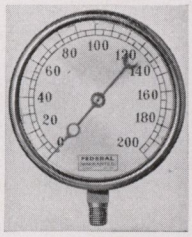


C 39896-A

Crane 3½-inch steel case combined altitude gauge and thermometer.

The above gauges are furnished as standard equipment on Crane Boilers. These Gauges are finished in dark green color.

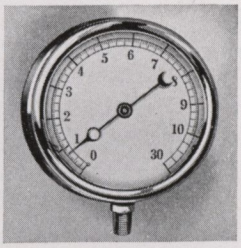
PRESSURE GAUGES



C 39886-A

PRESSURE GAUGE

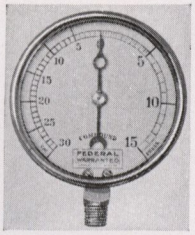
Graduated to 200 pounds. Steel case and brass ring.
Dial Sizes..... 2½, 3½, 4½, 5 inches
Also furnished with flanged iron case and flared brass ring in sizes 3½ to 10 inches.



C 39887

LOW PRESSURE RETARD GAUGE

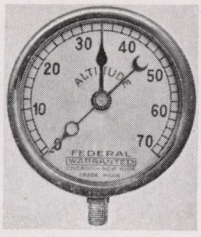
Graduated in ounces up to 10 pounds, and with correct registration from 10 to 30 pounds. Steel case and brass ring.
Dial Sizes.....3½, 4½, 5 inches



C 39890-A

COMPOUND GAUGE

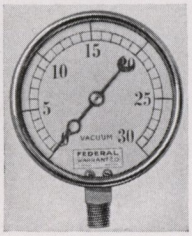
Compound pressure and vacuum gauge. Graduated to 15 pounds pressure and 30 inches vacuum. Steel case with brass ring.
Dial Sizes.....2½, 3½, 4½, 5 inches
Also furnished with flanged iron case and flared brass ring in sizes 3½ to 10 inches.



C 39894-A

ALTITUDE GAUGE

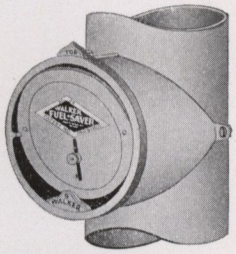
Graduated to 70 feet. Furnished with steel case and brass ring.
Dial Sizes .....3½, 4½, 5 inches
Also furnished with flanged iron case and flared brass ring in sizes 3½ to 10 inches.



C 39898-A

VACUUM GAUGE

With steel case and brass ring. Single spring. Graduated to 30 inches.
Dial Sizes.....2½, 3½, 4½, 5 inches
Also furnished with flanged iron case and flared brass ring in sizes 3½ to 10 inches.



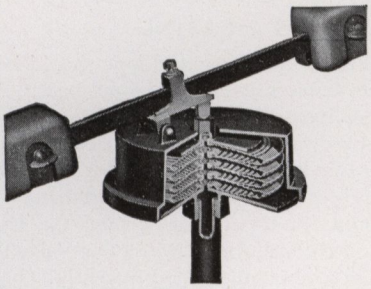
C 39899

WALKER FUEL SAVER DRAFT REGULATOR

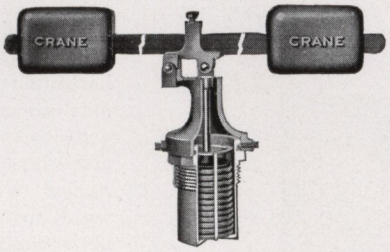
4, 5, 6, 7, 8 and 9 inch sizes

(Standard Equipment on Crane Boilers)

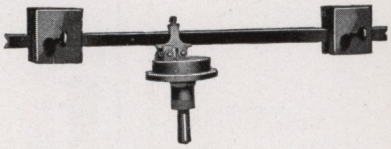
DAMPER REGULATORS



TYPE B-2



TYPE F-2



TYPE H-2

TYPE B2 STEAM REGULATOR

Standard Pressure Regulator for controlling dampers on steam heating boilers. Extreme sensitiveness has been obtained by the use of 5½-inch metaphram diaphragms. Operating element is a metallic bellows. Trimmings furnished: one 40-inch lever, 12 feet of chain, two ceiling pulleys, two adjustable weights. Connection ¾-inch female iron pipe size.

	Approx Shipping Weight Pounds
Type B2	**20**
Type C2 (Vapor-Vacuum)	**35**
Type D2 (Heavy Pattern for Vacuum)	**55**

TYPE F2 HOT WATER REGULATOR

A damper regulator designed for hot water boilers which will control the drafts so as to maintain a constant water temperature at any degree between 100° and 220° Fahr.

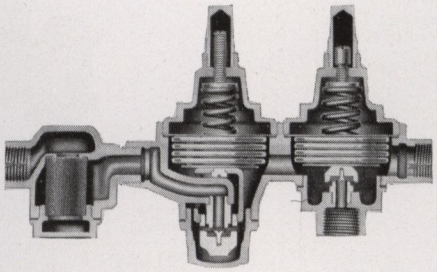
Trimmings consist of one 40-inch lever, two adjustable weights, 12 feet of chain, two ceiling pulleys, four "S" hooks. Connection 2-inch standard pipe thread. Depth of well 2½ inches.

	Approx. Shipping Weight Pounds
Type F2	**11**
Type H2*(For use with Domestic Hot Water Supply Boilers and Tank Heaters)	**10**

*This type has 1-inch I.P. thread on shank.

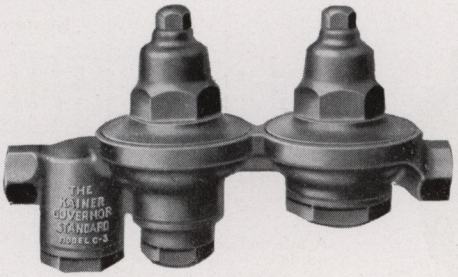
The above Regulator Types—B2, C2, or F2 are furnished as standard equipment on Crane Boilers, and are finished in green color to match jacket.

PRESSURE GOVERNORS



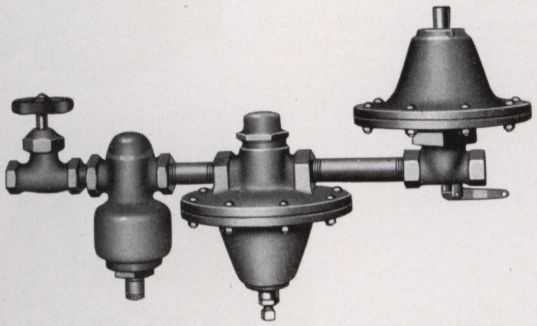
KAINER DE LUXE GOVERNOR
Model B-2

A durable all bronze unit which automatically governs the water supply and pressure in the Hot Water Heating System. Bellows type diaphragms made of one-piece phosphor bronze stock formed and tested under 500 lbs. pressure are used. **Tapped ½-inch.**



KAINER STANDARD GOVERNOR
Model C-3

One-piece unit. Made of all bronze using laminated phosphorus bronze diaphragms. Seats and strainer easily accessible for inspection. **Tapped ½-inch.**

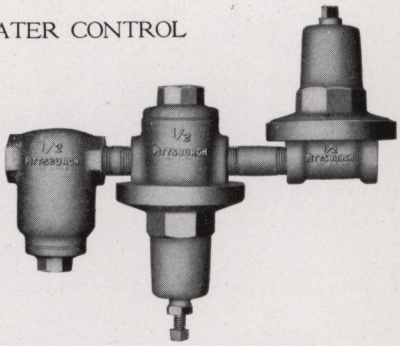


H9500 MUELLER HOT WATER CONTROL

This system consists of a ½-inch compression stop, strainer, reducing valve and relief valve, all connected up as illustrated. It is entirely automatic in operation, all working parts being made of bronze, the reducing valve and relief valve having phosphor bronze diaphragms.

PITTSBURGH HOT WATER CONTROL

Model A-500



The Pittsburgh A-500 Hot Water Control is designed to automatically supply water to hot water heating boilers and serve as an overflow when excess pressure is created at high temperature. The unit is composed of strainer, pressure regulator and pressure relief valve.

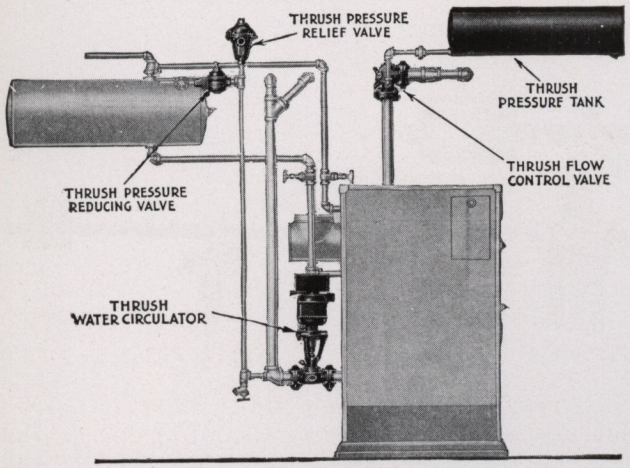
The outstanding features of this control are: all bronze parts, large strainer, non-corrosive seats, full seat openings to assure quick filling, ball check to prevent back syphonage and metal diaphragm.

Model A-600

The Pittsburgh A-600 Hot Water Control is the same as A-500 except less the strainer.

The Pittsburgh Strainer (A-350), Regulator (A-330), and Relief Valve (A-410) can be purchased separately.

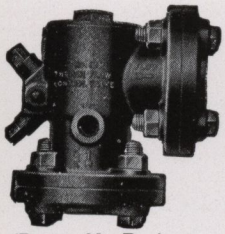
We recommend that an air tight expansion tank be used on all hot water heating systems having control units.



Thrush Flow Control System

THRUSH FLOW CONTROL SYSTEM FOR AUTOMATIC HOT WATER HEATING

Every Boiler Burner Unit Hot Water Heating Plant should be equipped with Thrush Flow Control System because it makes the job heat quickly, maintains healthful temperatures automatically, increases the efficiency of the burner, permits economical year 'round use for Summer-Winter domestic hot water supply and saves fuel. The water in the boiler is maintained at a constant temperature and cannot pass through the Flow Control Valve to the radiators when heat is not needed. When heat is required, the thermostat operates the Thrush Circulator, which quickly forces hot water through the Flow Control Valve to every radiator in the building, restoring room temperature almost instantly. Then the Flow Control Valve shuts off all further circulation, preventing overheating and attendant waste of fuel. Running time of burner is reduced. System comprises Thrush Water Circulator, Thrush Flow Control Valve, No. 12 Thrush Pressure Reducing Valve, No. 4 Thrush Differential Pressure Relief Valve and an air-tight Thrush Pressure Tank.



(Patent No. Re-issue 19873)
Thrush Flow Control Valve

THRUSH FLOW CONTROL VALVES

The Thrush Water Circulator and the Thrush Flow Control Valve used together provide complete circulation control as the Flow Control Valve works by pressure head generated by the Circulator. There are no complicated fittings. Installation is inexpensive and easy on old or new jobs. Flow Control Valve has opening just below the seat to provide for expansion and elimination of air and gases. (Manually operated set screws permit closing or opening permanently but are not needed for normal operation.)

No.	Size	Connection	Radiation Cap	Ship. Weight
114	1″	Screwed	300 sq. ft.	3 lbs.
115	1½″	Flanged	1000 sq. ft.	17 lbs.
120	2″	Flanged	1500 sq. ft.	19 lbs.
125	2½″	Flanged	2500 sq. ft.	26 lbs.
130	3″	Flanged	5000 sq. ft.	39 lbs.

THRUSH ELECTRIC WATER CIRCULATORS

Thrush Water Circulators are quiet and efficient electric motor operated water circulating pumps that assure instantaneous heat delivery. They are made in four sizes, as listed below. Motors are 110 V. 60 Cycle, A.C. Capacitor Type, silent in operation and free from radio interference.



TABLE OF SIZES AND CAPACITIES THRUSH CIRCULATOR

No.	Size	Motor	Gallons Delivery	Radiation Capacity	Storage Tank Capacity	Shipping Weight
14	1″	1/10 h.p.	25 per min.	500 sq. ft.	750 gallons	53 lbs.
15	1½″	1/6 h.p.	50 per min.	1500 sq. ft.	1500 gallons	72 lbs.
22	2″	1/6 h.p.	75 per min.	2500 sq. ft.	2000 gallons	74 lbs.
23	3″	1/4 h.p.	140 per min.	5000 sq. ft.	3000 gallons	94 lbs.

No. 4



¾″
Thrush Differential Pressure Relief

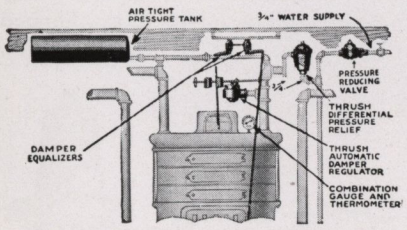
THRUSH DIFFERENTIAL PRESSURE RELIEF VALVE

A safe and dependable valve. It has a large metal diaphragm which actuates movement of a free working valve member—has no tight fitting guide. Fully guaranteed when properly installed. Set to open at 28 lbs. pressure, suitable for 1, 2, or 3 story buildings. Special adjustment up to 35 lbs. Weight 12 lbs.

THRUSH AIR-TIGHT PRESSURE TANKS

No.	Size	Ordinary Capacity	Flow Control Capacity
0	12″ x 36″	Up to 350 sq. ft.	500 sq. ft.
1	12″ x 48″	Up to 700 sq. ft.	1000 sq. ft.
2	12″ x 60″	Up to 1200 sq. ft.	2000 sq. ft.
3	14″ x 60″	Up to 2000 sq. ft.	3000 sq. ft.

NOTE: For buildings higher than two stories, use one size larger Pressure Tank. For larger jobs than 2,000 sq. ft. of radiation, except when Flow Control System is used, add additional tanks of proper capacity. Tapping ½″.



Fully Automatic

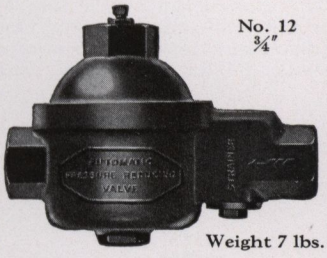
THRUSH TANK-IN-BASEMENT SYSTEMS

Makes a "closed" system under pressure, automatically regulated from any ordinary gravity job—increased heat transmission, lowered fuel consumption, uniform temperature. Thrush Pressure Tank goes in the basement, where it is out of the way, where it can't freeze. "Liming up" of boiler is reduced because the same water is kept in the system and used over and over again. Thrush Tanks will not water-log because of the Thrush method of piping which traps air from the boiler into the tank.

EIGHT TYPES OF EQUIPMENT

Class AA, as illustrated, consists of Thrush Differential Pressure Relief, Automatic Damper Regulator, Pressure Reducing Valve, Pressure Tank, Gauge and Thermometer. It is automatic filling. Class A is the same except without the Pressure Reducing Valve. Class BB consists of Thrush Differential Pressure Relief, Pressure Reducing Valve, Pressure Tank, Gauge and Thermometer and is automatic filling. Class B is the same except without the Pressure Reducing Valve. Class DD is the same as Class BB except without Gauge and Thermometer. Class D is the same as Class B except without the Gauge and Thermometer. Class CA is competition equipment made up of the Dual Control Unit, Regulator and Tank. Class CC is the same except without Regulator.

No. 12
¾″

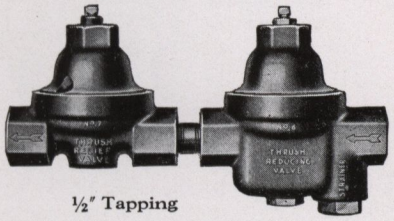


Weight 7 lbs.

Thrush Pressure Reducing Valve for Automatic Filling and Maintenance of water supply.

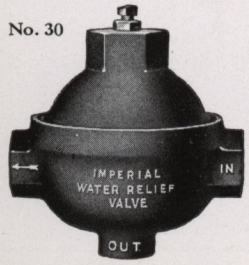
EASY TO INSTALL

Only a few feet of pipe and connections are needed to make the complete installation. The Thrush Engineering Department furnishes piping plans free of charge which help you to get the job and assure satisfactory installation.



½″ Tapping

No. 30



THRUSH LOW PRESSURE RELIEF VALVES

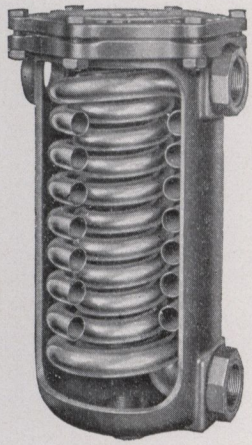
Thrush Water Relief Valves for Hot Water Heating Plants are made differently to meet varying conditions. All have brass working parts and are adjustable for pressure up to 35 lbs.

No.	Size	Adjustable Up to	Weight
30	½″	35 lbs.	4 lbs.
35	½″	35 lbs.	3 lbs.
40	½″	35 lbs.	3 lbs.

THRUSH DUAL CONTROL UNITS

To provide automatic pressure relief and automatically fill and maintain water supply. Made in three qualities, Master and Standard, red brass, and No. 67, cast iron with brass working parts.

INDIRECT WATER HEATERS



For furnishing year 'round domestic hot water with any steam, vapor or flow-controlled hot water heating system. Copper tubing installed in cast iron jacket—coils easily removable.

DESCRIPTION	No.	Cap. Gallons, in 3 Hrs. Boiler Water at 212°	200°	180°	Maximum Length	Maximum Width	Boiler Conn.	Service Water Conn.	Shipping Weight, Approx. Pounds
Single Coil Heaters	30	30	25	18	11¾″	5 1/16″	1″	¾″	12
Residences	*40	40	33	24	12¾″	5 1/16″	1″	¾″	13
Duplex Apartments	52	52	42	31	14¾″	5 1/16″	1″	¾″	15
Small Buildings	70	70	57	43	16½″	5 1/16″	1¼″	¾″	18
Equipped with 2	90	90	74	55	18¾″	7⅛″	1½″	1″	40
heavy brass unions	100	100	82	61	20 3/16″	7⅛″	1½″	1″	44
and removable coils	120	120	98	73	22¾″	7⅛″	1½″	1″	47
	150	150	123	92	25¼″	7⅛″	1½″	1″	52
Double Coil Heaters	160	160	131	98	12″	11½″	2″	1½″	61
Apartments	200	200	164	122	14¾″	11½″	2″	1½″	72
Garages	300	300	246	183	19 5/16″	11½″	2″	1½″	90
Small Factories	400	400	328	244	23⅜″	11½″	2″	1½″	100
Removable Coils	500	500	410	305	27″	11½″	2″	1½″	120
Triple Coil Heaters	600	600	492	366	21⅜″	15¾″	3″	2½″	210
Larger Buildings	800	800	656	488	25⅜″	15¾″	3″	2½″	234
Removable Coils	1000	1000	820	610	29¼″	15¾″	3″	2½″	250
Horizontal Tube Heaters	1200	1200	984	732	46⅝″	17″	4″	3″	217
	1600	1600	1312	976	53⅝″	17″	4″	3″	238
For Larger Capacities	2000	2000	1640	1220	61⅝″	17″	6″	3″	260

*For Marine Service—No. 40 Heater is available with brass instead of cast-iron shell and is tested to 125 lbs. working pressure. Capacities and dimensions same as standard No. 40.

The Crane Thermochek will control storage tank temperature and minimize liming of heater coils. See below.

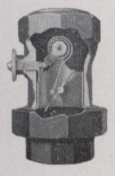


TANKLESS WATER HEATERS

Designed to satisfy the demand for a heater of unusual capacity which can be installed in basements lacking space for storage tanks—or where service water conditions would require non-ferrous tanks.

Note—For convenience in ordering, the heater number denotes the square feet of copper tube surface. Example: No. 16 Heater has 16 sq. ft. of actual heating surface.

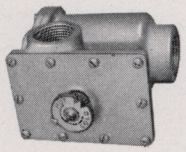
Size Number	Heating Surface Sq. Ft.	CAPACITIES IN GALLONS IN ONE HOUR HEATED FROM 50° F. TO 130° F. Boiler Water At 212° F.	Boiler Water At 200° F.	Boiler Water At 180° F.	DIMENSIONS Coil Openings	Shell Openings	Length	Diameter	Ship. Weight, Approx., Lbs. With Jacket	Without Jacket
14	14	280	210	140	¾″	2½″	17¼″	12½″	90	75
16	16	320	240	160	¾″	2½″	17¼″	12½″	94	80
20	20	400	300	200	¾″	2½″	32½″	12½″	121	98
30	30	600	450	300	¾″	3″	45¼″	12½″	154	125



THERMOCHEK

Prevents storage tank from overheating—minimizes liming of heater coils.

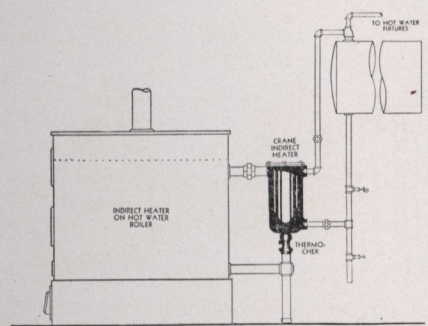
Size No.	Ship. Wt., Approx.
1½″	4 lbs.
2″	5 lbs.



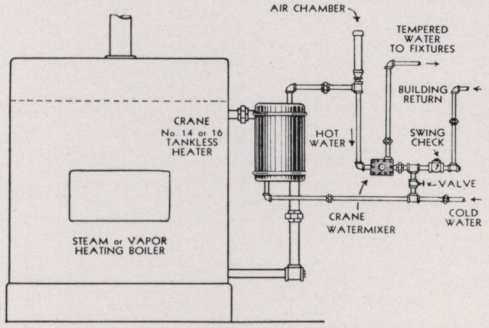
WATER MIXER

Mixes hot water from heater with cold water to provide a constant temperature at outlet. Easily adjustable.

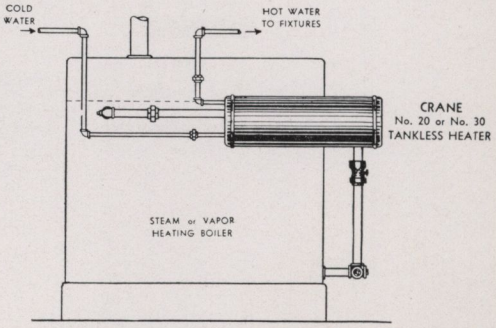
Size No.	Ship. Wt., Approx.
½″	6 lbs.
¾″	6 lbs.
1″	6 lbs.



Crane Indirect Heater installed with Thermochek to control storage tank temperature

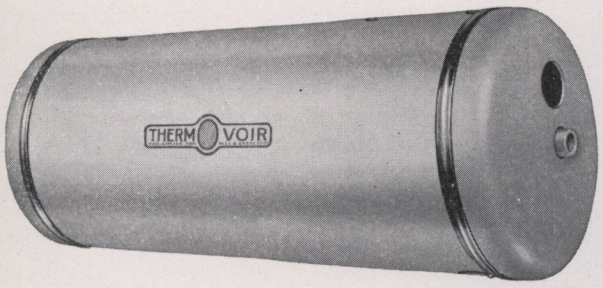


Crane Nos. 14 or 16 Tankless Heater installed with Crane Water Mixer



Crane Nos. 20 or 30 Tankless Heater

THERMO-VOIR



A revolutionary design in Indirect Water Heaters. This unit conserves fuel by making use of the stand-by heat loss of the boiler. It combines the best features of both tank and tankless heaters.

The water stored in the reservoir absorbs heat from the boiler during "off" periods of the automatic firing device, eliminating the need for a constantly maintained boiler water temperature of 160° to 180°, or higher. If there is no demand for hot water, the boiler is permitted to cool off almost entirely. Stand-by heat loss is thus reduced to a minimum—heat that used to go up the chimney is now fully utilized in heating domestic water.

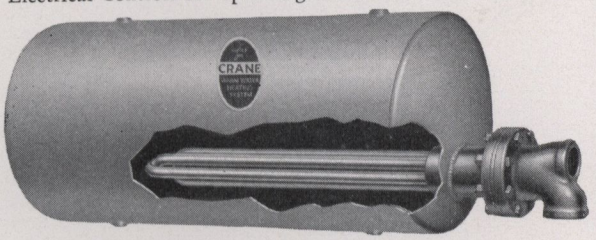
The Thermo-voir makes possible economical indirect water heating with new type boilers having small water content.

Model	Dimensions Inches	Boiler Conn. Inches	Service Water Conn. Inches	Shipping Weight Approx. Pounds
Standard	13x48	2	¾	125
De Luxe	16x56	2	¾	125

Capacity: 185 gallons per hour from 40° to 140° with boiler water at 180°, or 390 gallons with boiler water at 212°. Electrical Controls for operating Thermo-voir are extra.

TANK AND HEATER UNIT

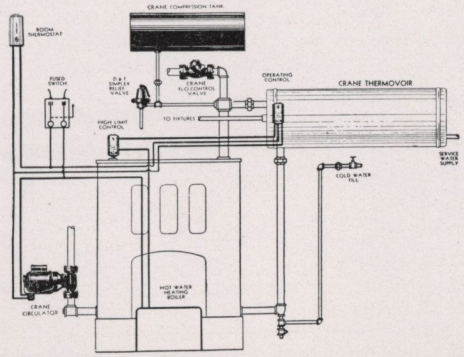
Here is a heating unit complete in itself—an excellent system for heating and storing domestic water, especially in hard water territories. It can be operated by passing either steam or hot water through the heating coil. This heater has a wide range of application and is particularly suitable for boiler rooms with low head room. Tanks tested at 300 lbs. Working pressure 127 lbs.



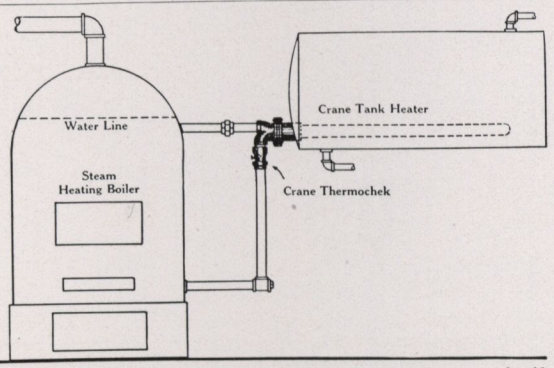
Size No.	TANK			HEATER		CAPACITIES GALLONS IN 1 HOUR			Shipping Wt., Approximate Pounds
						Heated from 50° to 150° F. Below Water Line		Heated from 50° to 180° F. Steam of 1 Lb. Gauge Pressure	
	Capacity Gallons	Size Inches	Conn's. Inches	Heating Surface Sq. Feet	Conn's. Inches	Boiler Water At 212° F.	Boiler Water At 180° F.		
40	40	16x48	4—1	6	2	80	50	130	180
52	52	16x60	4—1	6	2	80	50	130	210
66	66	18x60	4—1	6	2	80	50	130	245
82	82	20x60	4—1½	7½	2	100	62	160	270
100	100	22x60	4—1½	7½	2	100	62	160	315
120	120	24x60	4—1½	7½	2	100	62	160	435
144	144	24x72	4—1½	9	2	120	76	197	510
180	180	30x60	4—1½	14	3	180	110	290	610

ABOVE TYPE HEATER AND COLLAR ONLY

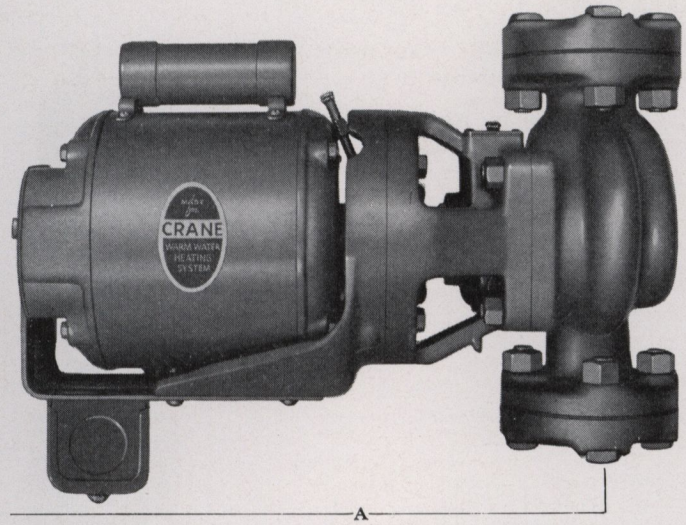
Heater and Collar No.	CAPACITIES IN GALLONS IN 1 HOUR			Inside Collar Diameter Inches	Connections, Inches	Length of Heater Tubes, Inches	Heating Surface, Sq. Ft.	Shipping Weight, Approx. Pounds
	Heated 50° to 150° F. Below Boiler Water Line		Heated from 50° to 180° F. Steam of 2 Lbs. Gauge Pressure					
	Boiler Water At 212° F.	Boiler Water At 180° F.						
448	80	50	160	4	2	48	6	65
460	100	62	200	4	2	60	7½	70
472	120	76	250	4	2	72	9	75
484	140	87	290	4	2	84	11	80
736	180	110	370	7	3	36	14	125
748	240	152	500	7	3	48	19	160
760	300	185	620	7	3	60	23½	190
772	360	227	740	7	3	72	28	210
784	420	262	870	7	3	84	33	225

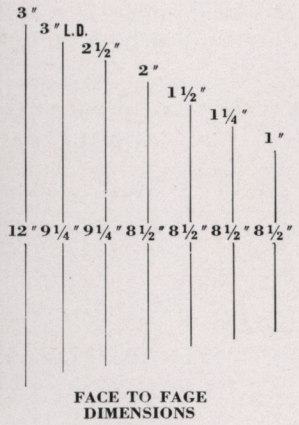


Crane Thermo-voir installed on hot water boiler.



Crane Tank and Heater installed below water line of steam boiler.





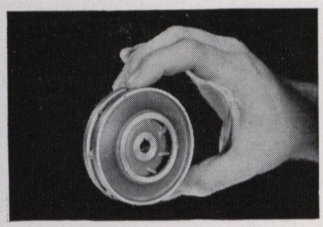
FACE TO FACE DIMENSIONS

CIRCULATORS

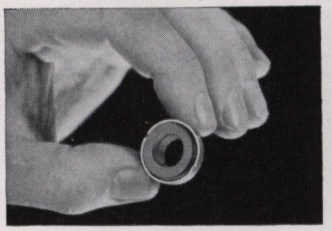
The Crane Circulator is oil-lubricated, providing a more efficient and service-free method than ordinary grease lubrication. **An improved Over-load Circuit Breaker protects against any possibility of a burned out motor.** Water leakage into the bearings is prohibited by the Water-tight Seal — a patented device which eliminates the need for a stuffing box.

From every standpoint, this pump meets the most exacting demands of forced circulation work, because it is manufactured upon the soundest engineering principles.

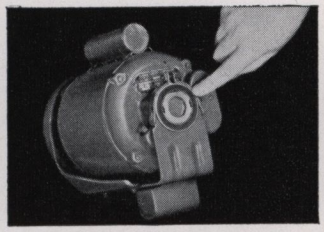
The illustrations below show a few of the many features built into the Crane Circulator.



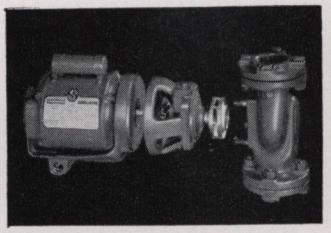
Forged Navy Brass Impeller



Patented Water-tight Seal

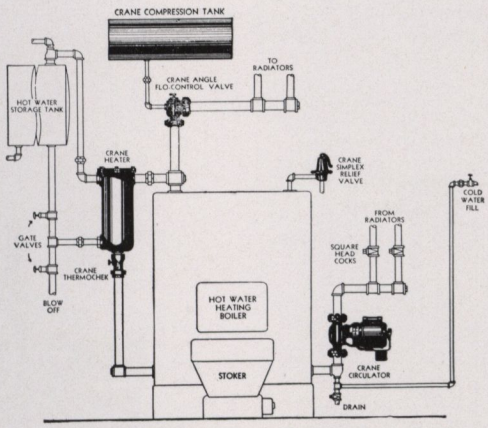


Motor cradled in rubber —both ends

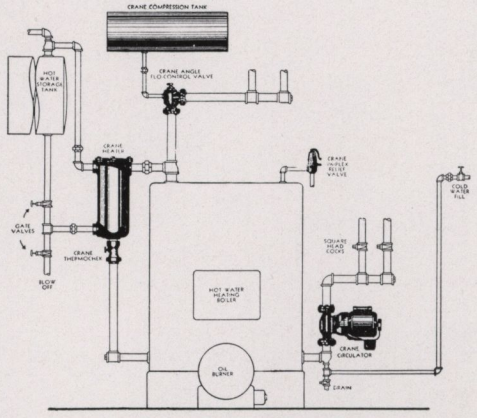


Separates into three sections

Size No.	Face to Face Dimensions, Inches	Dimension "A", Inches	Pipe Size	Motor 110 Volt, 60 Cycle	Delivery Gals. per Minute	Shipping Weight, Approx., Pounds
1″	8½	14⅛	1″ Flanged	⅙ H.P.	20	57
1¼″	8½	14¼	1¼″ Flanged	⅙ H.P.	30	68
1½″	8½	14⅜	1½″ Flanged	⅙ H.P.	48	70
2″	8½	14½	2″ Flanged	⅙ H.P.	70	72
2½″	9¼	14⅝	2½″ Flanged	¼ H.P.	100	78
3″ Low Delivery	9¼	14⅝	3″ Flanged	¼ H.P.	115	82
3″	12	16½	3″ Flanged	⅓ H.P.	147	136

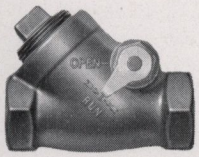


Crane Forced Warm Water System installed on stoker-fired boiler. For wiring instructions see Control Section, pages 169—10 to 169—12.

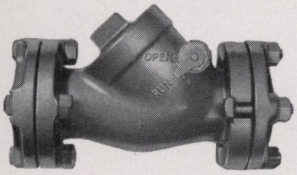


Oiled-fired boiler equipped with Crane Forced Warm Water System. For wiring instructions see Control Section, pages 169—10 to 169—12.

FLO-CONTROL VALVES







Used to prevent circulation of hot boiler water when heat is not needed in radiators, furnished in both Straight and Angle patterns.

Both types are easily opened for gravity circulation by merely turning with the fingers the external wing extension of the valve stem.





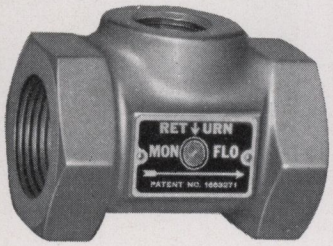
ANGLE PATTERN

Size	A-1″	A-1¼″	A-1½″	A-2″	A-2½″	A-3″
Connections	Screwed 2 ends	Screwed 2 ends	Flanged 2 ends	Flanged 2 ends	Flanged 2 ends	Flanged 2 ends
Shipping Wt., Approx. Lbs.	4	4	18	23	33	43

STRAIGHTWAY PATTERN

Size	S-1″	S-1¼″	S-1½″	S-2″	S-2½″	S-3″
Connections	Screwed 2 ends	Screwed 2 ends	Screw. 1 end Flged. 1 end	Flanged 2 ends	Flanged 2 ends	Flanged 2 ends
Shipping Wt., Approx., Lbs.	5	5	17	25	33	53

MONOFLO FITTINGS



These fittings make the single main forced warm water heating system a thoroughly practical and efficient installation, with a balanced distribution of hot water to each radiator assured. They also permit radiation to be installed below the main.

IMPORTANT

For radiators below the main:

1. Special Down-feed Monoflo Fittings must be specified.
2. One size larger branch must be used than for the same size radiator above the main.
3. If more than 10% of radiation is below the main, use Circulator one size larger.

Sizes shown below apply to both Standard and Down-feed Monoflo Fittings.

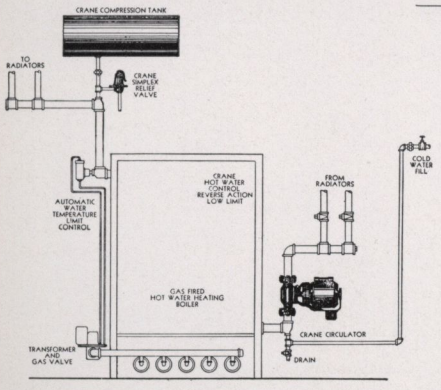


CAST IRON MONOFLO FITTINGS

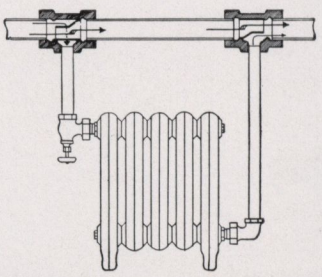
Size		Tapping Sizes	Shipping Weight, Approx., Pounds
1″	On all orders specify number of feed and return fittings.	1″ x½″ or ¾″	1½
1¼″		1¼″x½″—¾″ or 1″	2¾
1½″		1½″x½″—¾″ or 1″	3¼
2″		2″ x½″—¾″ or 1″	4¾
2½″		2½″x½″—¾″—1″ or 1¼″	5¾
3″		3″ x½″—¾″—1″ or 1¼″	9¾

STREAMLINE COPPER MONOFLO FITTINGS

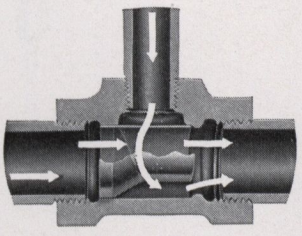
Size		Tapping Sizes	Shipping Weight, Approx., Pounds
1″	On all orders specify number of feed and return fittings.	1″ x½″	¾
1¼″		1¼″x½″ or ¾″	1¼
1½″		1½″x½″—¾″ or 1″	2



Crane Forced Warm Water heating system on gas-fired boiler. For wiring instructions see Control Section, pages 169—10 to 169—12.



Radiators below the main require special Down-feed Monoflo Fittings, installed as shown here.



The Crane Monoflo Fitting assures uniform distribution of hot water to radiators of single main systems.



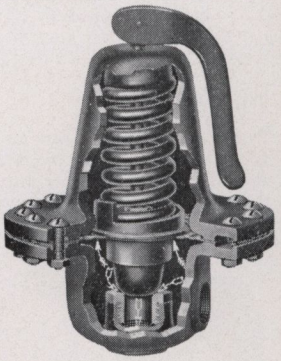
AIR-CUSHION COMPRESSION TANK

The use of a Compression Tank on closed hot water heating systems is now universally recognized as essential to economy and adequate boiler protection. The Crane Tank is a thoroughly dependable unit, made of copper bearing steel and welded to make it absolutely air tight. Should be installed on ceiling only.

Tank No.	Gallons	Dimensions	*Capacity Sq. Ft. Radiation	Shipping Weight, Approx., Pounds
15	15	12″x30″	Up to 300 ft.	28
18	18	12″x36″	Up to 500 ft.	34
21	21	12″x42″	Up to 700 ft.	40
24	24	12″x48″	Up to 1000 ft.	45
30	30	12″x60″	Up to 2000 ft.	55
40	40	13″x71″	Up to 3000 ft.	66

*Above capacities are based on forced circulation pipe sizes. On Gravity systems use next larger size tank.

SIMPLEX RELIEF VALVE
FOR HEATING SYSTEMS



In every detail of design and workmanship, the Simplex Relief Valve is an outstanding value, offering full protection against damages which might be caused by excessive pressure on the boiler. The body is of heavy durable construction and the valve seat of rust-proof bronze. Any pressure in excess of 28 lbs. lifts the extremely large, corrugated phosphorous-bronze diaphragm to relieve the system. The large area of the diaphragm assures ample lifting power and the positive action that guarantees safety.

This valve has no guides to set up friction or become corroded and is equipped with a lifting lever as required by the ASME Code. **Packed single—Shipping weight approx. 10 lbs.**

SERVICE WATER RELIEF AND REDUCING VALVES



HIGH PRESSURE RELIEF VALVE

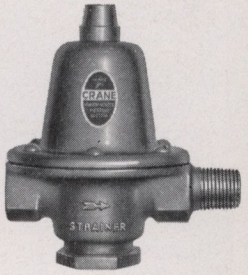
Protects against excess pressures in hot water supply boilers, gas storage tank heaters, etc.

Diaphragm operated with all working parts of brass. Body in either brass or iron.

*Standard setting 75 lbs. For other settings, specify when ordering. Adjustable 40 lbs. to 150 lbs.

No.	Size	Body Const.	Pressure Setting Pounds	*Pressure Range Pounds	Ship. Wt., Approx., Pounds
4	½″	Brass	75	40 to 150	5
5	¾″	Brass	75	40 to 150	6
9	½″	Iron	75	40 to 150	5
10	¾″	Iron	75	40 to 150	6

HIGH PRESSURE REDUCING VALVE

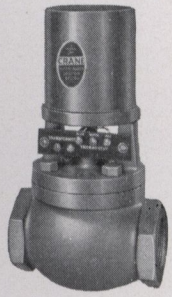


Protects plumbing fixtures against excessive line pressure. Factory adjusted for 150 lbs. initial pressure, 45 lbs. delivery pressure.

Other pressures must be specified when ordering. All working parts brass construction, built-in strainer, extra large diaphragm.

No.	Size	Body Const.	Factory Pressure Setting	Ship. Wt., Approx., Pounds
6	½″	Brass	45 lbs. delivery	5
7	¾″	Brass	45 lbs. delivery	6

MOTORIZED VALVES



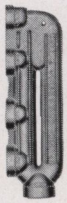
Widely used as zone controls in hot water heating systems and to control the flow of boiler water when an Indirect Heater is used to provide year 'round domestic hot water on automatically fired gravity systems. Do not use on steam installations!

Series Number	Style	Description	Shipping Wt., Approx., Pounds
1¼	Straitway	Single 1¼″ Main	19
1½	Straitway	Single 1½″ Main	20
2	Straitway	Single 2″ Main	23
2½	Straitway	Single 2½″ Main	35
3	Straitway	Single 3″ Main	40
4	Straitway	Single 4″ Main	78

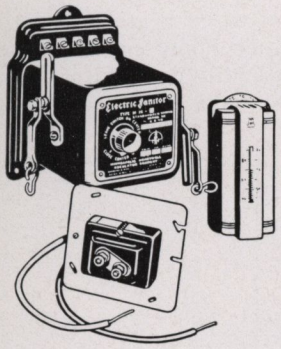
FIRE POT COIL HEATERS

For use in all warm air furnaces and coal-fired hot water heating boilers.
All center openings are 2½″, 6″ and 9″. Nos. 30 and 42 are packed six to a box. No. 66 packed three in a box. All are tapped 1″. Approx. shipping weights: Box No. 30—41 lbs., Box No. 42—48 lbs., Box No. 66—48 lbs. Made in cast iron or brass.

Heater Number	Capacity, Gallons
30	30
42	42
66	66



THE MINNEAPOLIS-HONEYWELL ELECTRIC JANITOR

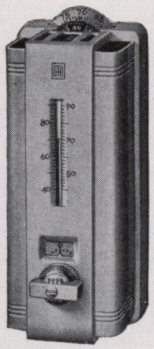


Y100A, **all necessary fittings included**

The Electric Janitor provides automatic temperature control on all types of domestic coal fired heating plants. By opening and closing dampers in accordance with the demands of the thermostat, a close and even temperature, with resultant fuel saving, is maintained at all times. The Electric Janitor is available in three models differing only in the type of thermostat, all of which incorporate the heat leveling feature. The sturdy and dependable M 26 electric motor is included in each set.

Package Contents:

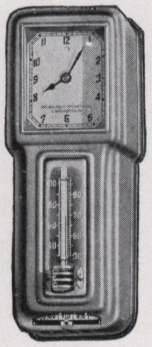
Y 100A includes Standard Electric Janitor Set with T 21A Acratherm.
Y 18A includes Da-Nite Electric Janitor Set with T 209A Da-Nite Acratherm.
Y 17A includes Deluxe Electric Janitor Set with T 205A Chronotherm.



DA-NITE ACRA-THERM

T 209A Da-Nite Acratherm, used in Y 18A Package provides manual Nite shut-down and automatic morning pick-up.

Specify T 109A if used with Series 10 Relays.



CHRONO-THERM

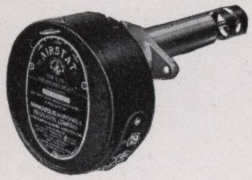
T 205A Chronotherm, used in Y 17A Package, provides automatic day and night temperatures by means of built-in telechron clock.

Specify T 105A if used with Series 10 Relays.

LIMIT CONTROLS

Type L Airstat

Type L Airstats are warm air furnace temperature controllers used to prevent excessive or dangerous temperature in the bonnet. Visible scale marked "Low" and "High", with midpoint calibrated for 200° F. The fixed differential in this new device is approximately 25 to 50° dependent upon rate of temperature change. Outside contacts for Series 10 and Series 20 devices, conduit outlet for Series 40.



Type L 119A (Series 10) 3 amps., 25 volts.
Type L 219A (Series 20) 3 amps., 25 volts.
Type L 419A (Series 40) 2-wire line voltage.

Current Rating: 10A, 110V.; 5A, 220V. Motor Rating: ¾ H.P., R.I.; ¼ H.P., S.P. or D.C.

Operating Range: Approximately 50 to 350° F., marked 200° F. at midpoint, ends marked "High" and "Low."

Operating Differential: (Not adjustable) approximately 25-50° F. depending upon rate of temperature change.

Type L Pressuretrol

Type L Pressuretrols are pressure operated limit controls. By tilting a Mercury Switch through expansion and contraction of a bellows, the boiler pressure is held within set limits. Equipped with outside setting adjustments and visible scales.



Type L 104A (Series 10) low voltage, 3 amps., 25 volts.

Type L 204A (Series 20) low voltage, 3 amps., 25 volts.

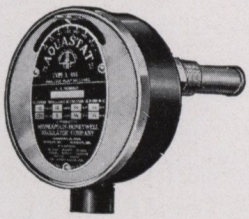
Type L 404A (Series 40) line voltage, 2-wire.
Current Rating: 10A, 110V.; 5A, 220V.

Type L 604 (Series 60) Line or Low Voltage, 3-wire, 1 amp., 110V., ½ amp., 220V.
Standard cut-in pressure range: 0 to 10 lb. Diff.: 9 ozs. to 6 lbs.

Ranges available at a slight extra cost: 2 to 50 lbs. Diff.: 2 to 12 lbs. 5 to 150 lbs. Diff.: 2-5 to 16 lbs.
Cut-in pressure plus differential equals cut-out pressure.
Height, 7″ Width, 4″ Depth, 2½″

Type L Immersion Aquastat

Type L Aquastats are immersion type water temperature controls for use with hot water heating systems. They are most commonly used to prevent the generation of excessive temperature of the water in the boiler, and with summer-winter line voltage hook-ups. Requires ¾″ boiler tapping.



Type L 116A (Series 10) low voltage, 3 amps., 20 volts. Suitable for use as high or low limit control.

Type L 216A (Series 20) low voltage, 3 amps., 20 volts. For use only as a high limit control.

Type 416 (Series 40) 2-wire, for line voltage circuits.
Current Rating: 10A., 110V.; 5A, 220V.
Motor Rating: ¾ H.P., R.I.; ¼ H.P., S.P. and D.C.
Standard Range: 60°-210° F.
Special Scale Range: 90°-240° F. Available on special order at no extra charge.
Differential: Approximately 10° F., dependent on rate of temperature change.

Type L Surface Aquastat

Type L Aquastats are strap-on hot water temperature controls operated by heat transfer from the riser through the back plate, actuating a bimetal element and mercury switch. Since these devices are for surface mounting, draining or tapping of the boiler is unnecessary. Front reading scale and outside setting lever are provided and pipe straps are furnished. Surface Aquastats are arranged for mounting on either vertical or horizontal pipes.



Type L 109A (Series 10) 3-wire low voltage, 3 amps., 20 volts.

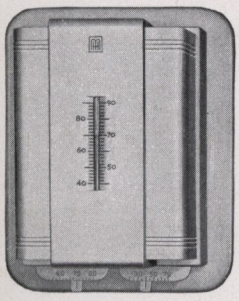
Type L 209A (Series 20) 3-wire low voltage, 3 amps., 20 volts.

Type L409A (Series 40) line voltage, 2-wire.
Current Rating: 10A, 110 V.; 5A, 220V.
Motor Rating: ¾ H.P., R.I.; ¼ H.P., S.P. and D.C.
Operating Range: 60°-200° F.
Differential (fixed): Approx. 15° dependent on rate of temperature change.
Surface Aquastats are suitable only for use as high limit controls. For maintaining minimum boiler temperatures use L 165, B 6510, L 116, or L 416 Immersion Aquastats.

SPECIAL CONTROLS

Unitrol—Combination Temperature and Humidity Controller

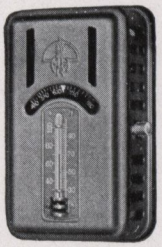
Valuable wall space may be saved by using an M-H Unitrol when both temperature and humidity are to be controlled. Designed primarily for installations where wall mounting is required, the combination thermostat and humidity controller is both compact and attractive in appearance. The advantages of either heat acceleration or heat leveling thermostat action are combined with those of the human hair actuated humidity controller described above. The combination controller is available for use with either low or line voltage equipment. This control meets the requirements of all installations where positive regulation of temperature and humidity is desired.



Temperature Range: 54 to 86° F.; Diff. Adj. 2-6°.
Humidity Range: 20-96%; Diff. Adj. 2-10%.
Humidity Contacts—2 or 3 wire for line or low voltage service.
Thermostat contracts as specified below:
H 17A Unitrol (Thermostat Series 10 with "Heat Acceleration").
H 27A Unitrol (Thermostat Series 20 with Heat Levelling).
H 47A Unitrol (Thermostat Series 40 with Heat Levelling).

Types T 42A and T 62A Thermostats

Type T 42A is used on control systems wherein thermostat controls motor directly. It is a 2-wire line voltage bellows actuated mercury switch thermostat particularly fitted for direct control of oil burners, automatic coal burners, unit heaters, etc., whose motors are within ratings shown below. Can be used with magnetic starter on larger or polyphase motors. Type T 62A is for control of 3-wire line voltage single pole double throw circuits (Series 60) such as are used with program control motors, motorized valves, etc.



Type T 42A—2-wire line voltage.
Current Rating: 8A., 110V.; 4A., 220V. A.C. or D.C.; ½A., 440V .or 550V. A.C.
Motor Rating: 110-250V., ½ H.P., R.I., ⅙ H.P., S.P. or D.C.
Range: 60°-100° F., or 40°-80° F. (specify).
Special scale range 80°-120° F. add a nominal extra charge.
Differential: 2°-3° F., dependent on rate of temperature change
Locking device available on order at no extra charge.
Finish: Bronze standard. Silver finish available on order at no extra charge.

Type T 42B like T 42A except reverse acting for cooling control.

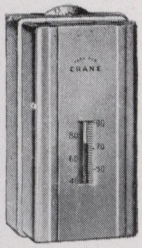
Type T 62A like T 42A except 3-wire single pole double throw (Series 60) inherently suitable for heating or cooling control.
Rating: 3A., 20V.; 1A., 110V.; ½A., 220V.
Motor Rating: 1/20 H.P., S.P., R.I., D.C. at 110V. or 220V.

Note: Other type controls available—consult your Crane Branch or Crane Wholesaler

CRANE AUTOMATIC CONTROLS

THERMOSTATS

Heating—Types C836 and C860



Type C 836 Thermostat (heat anticipating) is a two-wire, low voltage room temperature control. Mechanism is housed inside a sturdy metal case, finished in attractive dull antique silver finish. The thermometer on the cover is recessed and entirely protected. The neat, calibrated adjusting dial, located on top is conveniently accessible for low mounting. Adjusting dial is equipped with lock screw for locking setting when desired. Type C 836 may be converted for Day-Nite control at any time by adding the set-back resistance heater and Tem-Clock.

Type C 860 Day-Nite Thermostat provides a means of automatically regulating lowered night temperatures that is simple and inexpensive to install and instantly adjustable to meet the changing requirements of individual customers. When used with Tem-Clock, Type C 860 combines even day temperature regulation with automatically controlled night temperatures of 6° F., 9° F., 15° F. or 20° F. below day levels. Type C 860 is the standard Type C 836 Thermostat, modified during night operation by action of a small resistance heater, energized by the action of the low voltage switching mechanism of Tem-Clock.

Both Types C 836 and C 860 available, when specified, with special cover locking screw and locking screw wrench, at no extra cost.

SPECIFICATIONS—TYPES C 836 and C 860

Electrical Rating: Low Voltage, Max. 2 Amps. 25 Volts A.C.

Temperature Range: Standard 55° F. to 85° F.

Specify: (1) Type Number. (2) Crane Primary Control or Relay with which Thermostat is to be used or (3) Thermostat Circuit Current in Amperes. (4) Degrees Night Set-Back Desired (Type C 860).

Cooling Thermostat—Type C837

Type C 837 Cooling Thermostat is a line or low voltage pilot thermostat for room cooling applications and for refrigeration applications where attractive appearance is desired. Housed in same sturdy metal case as Type C 836 pictured above. Finished in dull antique silver finish. Recessed, fully protected thermometer in cover. Calibrated dial at top, equipped with dial lock screw for locking setting, when desired. Also available with cover locking screw and locking screw wrench at no extra cost, when specified. Regularly supplied with conduit box for line voltage pilot service.

SPECIFICATIONS—TYPE C 837

Electrical Rating: Max. .5 Amp. to 250 V. Max. Pilot Service Only.

Temperature Range: Standard 55° F. to 85° F.
Optional 25° F. to 55° F.

Specify: (1) Type Number. (2) Range.

Three-Wire Thermostats—C835 Series

A three-wire, two circuit thermostat, designed for miscellaneous applications, including regulation of heating and cooling equipment with the same instrument; regulation of three wire reversing type motorized dampers and valves, etc. Has same appearance as Type C 836 pictured above, with same adjusting dial. The armature carrying the common contact closes to one stationary contact on temperature fall; snapping to the other contact on temperature rise. When used to control summer cooling or ventilating equipment and winter heating equipment, a manual switch must be provided to break the heating, or the cooling circuit, depending upon which equipment is not required. For three wire motorized valves, dampers, etc., both circuits remain operative at all times.

Type C 835—As described, with heat anticipation when heating circuit is closed.

Type C 835X01—Same as Type C 835, but equipped with night set-back heater for use with Type C 772 Tem-Clock, for automatic control of lowered night temperature.

Type C 835X02—Same as Type C 835, but standard thermostat action —without heat anticipation.

Type C 835X03—Same as Type C 835X02 (no heat anticipation) but equipped with night set-back heater for use with Type C 772 Tem-Clock for automatic control of lowered night temperature.

SPECIFICATIONS—C 835 SERIES

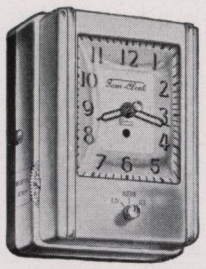
Electrical Rating: Max. current 2 Amps. Max. Voltage 24 V.

Temperature Range: Standard 55° F. to 85° F.

Specify: (1) Type Number. (2) Thermostat Circuit Current Flow in Amperes (Heating circuit—Types C 835 and C 835X01). (3) Degrees Night Set-Back Desired (Types C 835X01 and C 835X03).

DAY-NITE CLOCKS

Tem-Clock—Type C772



Type C 772 Tem-Clock is an electric clock with synchronous Telechron movement, designed for completely automatic time regulation of night set-back temperatures when used in conjunction with Type C 860 Day-Nite Thermostat. Connected by low voltage electrical circuit to Day-Nite Thermostat. There is no mechanical connection between the two instruments. May be located where customer desires an attractive electric clock, regardless of Thermostat location. Calibrated outside adjusting dials permit night set-back time settings on Tem-Clock to be easily adjusted by the user as desired. An inconspicuous control knob provides choice of three control positions: 1. Automatic regulation of temperatures as described above; 2. Continuous high (day level); 3. Continuous low (night level). This control knob may be set at any time to maintain "Continuous High" or "Continuous Low" temperatures to meet the flexible living habits of modern families, then returned to automatic operation when desired.

Low voltage supply for operation of the synchronous electric motor in the clock and the night set-back heater is provided by a separate transformer packed with Tem-Clock.

SPECIFICATIONS

Clock Motor Circuit—24 V. 60 C. (Available for other than 60 C. supply at slight additional cost.)

Type C 772 Tem-Clock—regularly supplied with 110/24 Volt transformer for low voltage current supply to clock motor. (Available for other voltages at slight additional cost.)

Switching Circuit—24 V. 3 Amps. Max.

Finish—Dull antique silver.

Specify: (1) Type Number. (2) Volts (3) Cycles.

Tem-Clock—Type C772-R

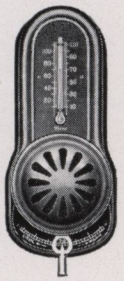
Type C 772-R Tem-Clock is the same in construction and adjustability as Type C 772 described above, but is for installation in series with Type C 836 Thermostat for complete night shutdown of automatic heating equipment. Has same convenient outside adjusting means as Type C 772. Standard in many areas, where complete night shutdown is desired.

SPECIFICATIONS

Same as Type C 772 above.

Specify: (1) Type Number. (2) Volts. (3) Cycles.

Heavy Duty Room Thermostats—Types A and B



Type A Room Thermostat is a heavy duty, two-wire, line voltage temperature control for operating directly heating equipment within its rating. Recommended for industrial unit heater applications. A sensitive charged power element operates the thermostat armature. A strong permanent magnet provides a fast snap action of the movable contact on both make and break. Operating temperatures may be raised or lowered by a single outside adjusting lever. Cover is heavy deep drawn brass with thermometer on outside. Conduit box for flush mounting regularly supplied. Mounting is quickly and easily made. A special conduit box also can be furnished for outside exposed conduit when desired.

Type B Thermostat is very similar in appearance to Type A and for similar applications. Range adjustment is approximately ten degrees wider, making it more suitable for some applications. A bimetal coil actuates the contacts, the remainder of the operating mechanism being identical with that of the Type A.

Both Type A and Type B available with adjustment locking device at extra cost.

SPECIFICATIONS

Type A—Electrical rating—D.C. ½ H.P.; A.C. 1 H.P.; Max. voltage 250; pilot voltage 550—.5 Amp. Temperature Range—Standard 60° F. to 80° F. Available 40° F. to 80° F. when specified. Differential approximately 2° F. Finish—velvet bronze.

Type B—Electrical rating—⅓ H.P., D.C. or A.C.; Max. voltage 250; pilot voltage 550—.5 Amp. Temperature range—Standard 55° F. to 85° F. Available 40° F. to 90° F. when specified. Differential approximately 2° F. Finish—velvet bronze.

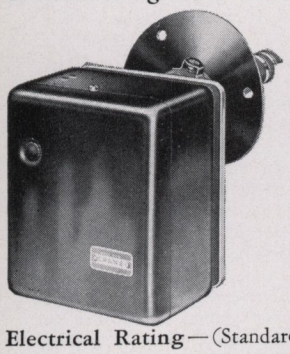
Specify: (1) Type Number. (2) Operating Range.

Other **CRANE** *Controls are available for miscellaneous applications—Consult your* **CRANE** *Branch or* **CRANE** *Wholesaler*

CRANE AUTOMATIC CONTROLS

OIL BURNER CONTROLS

Continuous Ignition Stack Switch—Type C 670



Type C 670 Stack Switch is a complete safety combustion control for continuous ignition oil burners. It provides: 1. Low voltage wiring to the Thermostat. 2. Automatic lockout in case of no combustion, or flame failure. 3. Positive ignition safety. Stack Switch will shut down before voltage on line drops to point where ignition may fail. (Normally 70 to 75 volts on 110 volt service.) 4. Automatic recycle in case of excessive voltage drop or power failure.

SPECIFICATIONS

Electrical Rating—(Standard) Motor—A.C. 110 Volt, 50-60 Cycles Single Phase, Max. 1 H.P. Other voltages and cycles available at slight additional cost. Ignition 6 Amps. Max. Thermostat circuit, 24 Volts—.4 Amp.

Specify: (1) Type Number. (2) Volts. (3) Cycles.

Two-Unit Continuous Ignition Stack Switch—Type C 671

Type C 671 is the same as Type C 670 described above except that it consists of two units (Relay unit and Stack unit). Both units are mechanically independent of each other, being connected with three-wire low voltage cable. Relay unit may be mounted on wall or entrance switch or meter panel. Especially suitable where space limitations will not allow the single unit (Type C 670) to be mounted in the stack.

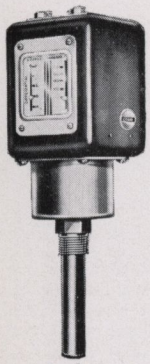
SPECIFICATIONS

Same as Type C 670, above.

Specify: (1) Type Number. (2) Volts. (3) Cycles.

BOILER CONTROLS

Immersion Hot Water Controls—Types C 430 and C 431



Style 2

Type C 430 (Style 2—straight style) is a two-wire immersion temperature control which opens on rising temperature and closes on falling temperature. Incorporates enclosed Magneseal contact unit. When used as a safety limit switch this control shuts down automatic heating equipment in the event of excessive boiler temperature. As an operating control, it may be installed to maintain water temperature within desired set limits. Convenient outside adjusters are provided, permitting the range and differential to be easily and quickly adjusted. Visible calibrated scale shows range and differential at all settings.

Type C 430 (Style 10) is the same as Type C 430 (Style 2), above, except temperature sensitive element is designed for direct, angle mounting.

Type C 431 (Style 2) is the same as Type C 430 (Style 2), above, but closes on rising temperature and opens on falling temperature. Applications include installation to: 1. Operate circulator to dissipate excessive boiler water temperature on stoker fired systems; 2. Prevent operation of circulator motor when water temperature is below point required to supply heat to radiators; 3. Installation in series with unit heater motor to prevent operation of unit heater fan when water temperature is below point required to supply heat.

Type C 431 (Style 10) is the same as Type C 431 (Style 2), above, except temperature sensitive element is designed for direct, angle mounting.

SPECIFICATIONS—TYPES C 430 AND C 431

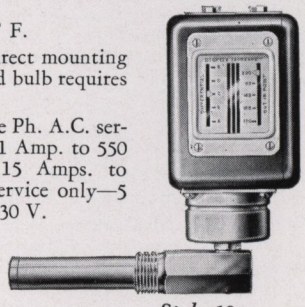
Temperature Range: (closing points)—Standard 140° F. to 200° F. Optional (no extra cost)—100° F. to 170° F.; 160° F. to 230° F.; 180° F. to 260° F.

Differential: Adjustable from 8° F. to 20° F.

Mounting: Both Styles 2 and 10 are for direct mounting in ½″ I.P.T. Tapping. Standard bulb requires an unobstructed depth of 3″.

Electrical Rating: ¾ H.P. 110-220 V. Single Ph. A.C. service; A.C. Pilot Service 1 Amp. to 550 Volts; A.C. Non-Ind. 15 Amps. to 220 Volts. D.C. Pilot Service only—5 Amp. 115 V.; 25 Amp. 230 V.

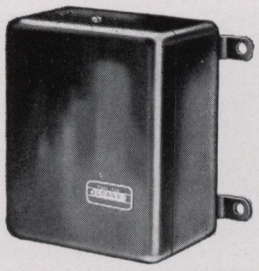
Specify: (1) Type Number. (2) Style Number. (3) Range.



Style 10

STOKER CONTROLS

Stoker Timer Relay—Type C 560



Type C 560 Stoker Timer Relay is a single unit, timed interval complete combustion control for maintaining minimum fire in a stoker fired system and for low voltage thermostat control of stokers to 1 H.P. A.C. rating. It incorporates a 24 volt synchronous electric timer, which may be equipped easily, on the job, to fire the stoker at intervals as follows:

a. With one hour motor:
   1. Once each half hour. Duration of firing interval adjustable from 1 to 10 minutes.
   2. Once each hour. Duration of firing interval adjustable from 1 to 10 mins.

b. With four hour motor:
   1. Once each two hours. Duration of firing interval adjustable from 1 to 40 minutes.
   2. Once each four hours. Duration of firing interval adjustable from 1 to 40 minutes.

Enclosed transformer provides low voltage (24 volts) current supply to the timer and thermostat circuit.

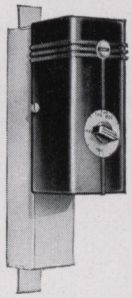
SPECIFICATIONS

Electrical Rating: Thermostat circuit 24 Volts. .4 Amp. Stoker circuit (Standard) 110 Volt, 60 Cycles, 1 Ph. A.C., 1 H.P. Max. Supplied for 220 V. single phase service and for other frequencies when specified at slight additional cost.

Specify: (1) Type Number. (2) Volts. (3) Cycles. (4) Automatic firing frequency. (5) Duration of Automatic Firing Period.

BOILER CONTROLS

Surface Type Limit Switch—Types C 420 and C 421



Type C 420 two-wire surface or strap-on type temperature switch opens on rising temperature, closes on falling temperature. Used as a safety limit switch, this control shuts down automatic heating equipment in the event of excessive boiler temperature. Large heat seasoned bimetal power element actuates the contacts. Incorporates standard enclosed Magneseal contact unit. Convenient outside adjusting knob with calibrated scale provides for quick adjustment of control over entire range.

Type C 421—Same as above, but contacts close on rising temperature; open on falling temperature. For unit heater and similar applications, to prevent motor operation when water temperature is below control setting.

SPECIFICATIONS TYPES C 420 AND C 421

Temperature Range: Standard 100° F. to 240° F.

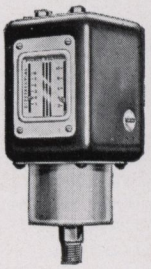
Differential: 25° F. Non-adjustable.

Mounting: On either vertical or horizontal riser pipe up to 6″ diameter by means of two mounting straps provided.

Electrical Rating: Same as Type C 430, above.

Specify: (1) Type Number. (2) Range.

Steam Pressure Controls—Types C 400 and C 401



Type C 400 two-wire pressure control opens on rising pressure; closes on falling pressure. Incorporates standard enclosed Magneseal contact unit. Recommended as a limit switch on automatic heating applications to shut down the equipment in the event of excessive steam pressure. Also used as an operating control on steam boiler installations up to 90 lbs. gauge, to maintain steam pressure within desired limits. Convenient outside adjusters permit range and differential adjustments to be easily and quickly made. Calibrated scale shows range and differential setting.

Type C 401 is the same as Type C 400 above, but closes on rising pressure; opens on falling pressure. Designed to prevent operation of equipment, such as unit heaters, when steam pressure is below point required for adequate heating.

SPECIFICATIONS—TYPES C 400 AND C 401

Pressure Range: (closing points)—Standard 0 to 10 lbs. Optional (no extra cost)—0 to 50 lbs.; 0 to 90 lbs.

Differential: Standard range: Adjustable from 1¼ lbs. to 6 lbs. (Min. and max. differentials wider on higher ranges.)

Mounting: Standard Thread Combination ¼″ Female I.P.T. with ½″ Male I.P.T. for direct mounting to boiler. May also be furnished with ¼ S.A.E. Tubing Connector.

Electrical Rating: Same as Type C 430, above.

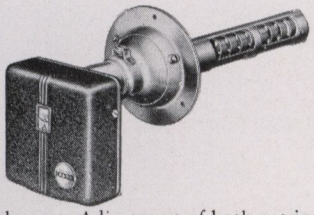
Specify: (1) Type Number. (2) Range. (3) Pressure Connection (if other than standard).

Other **CRANE** *Controls are available for miscellaneous applications—Consult your* **CRANE** *Branch or Wholesaler*

CRANE AUTOMATIC CONTROLS

FURNACE CONTROLS

Furnace Fan Control—Type C 511X01



Type C 511X01 is a two-wire fan switch, to control operation of fan or blower by bonnet temperature. Closes high; opens low, preventing furnace fan operation when bonnet temperatures are too low to assure circulation of warm air. Incorporates standard enclosed Magneseal contact unit. Regularly supplied with adjustable ball and socket mounting flange permitting the control to be mounted in any type of bonnet. Adjustment of both cut-in and cut-out points is easily made by means of indicating pointers on the face of the calibrated dial. Approximate bonnet temperature is indicated by pointer visible through transparent, non-breakable window in cover. Maximum shank extension into bonnet—8″. Longer shanks available at additional cost.

SPECIFICATIONS

Range: 75° F. to 325° F. (Adjustable.)
Differential: Adjustable from 18° F. to 75° F.
Electrical Rating: Maximum ¾ H.P., 115-230 Volts A.C. only; A.C. Pilot Service 1 Amp. to 550 V.; D.C. Pilot Service .5 Amp. 115 V.; .25 Amp. 230 V.
Specify: (1) Type Number.

Furnace Fan Control—Type C 511

Type C 511 is a two-wire fan switch, same as Type C 511X01 described above, but has no differential adjustment and no temperature indicating window in cover.

SPECIFICATIONS

Range: 75° F. to 225° F. (Adjustable.)
Differential: Factory set 18° F. to 30° F. as specified by buyer.
Electrical Rating: Same as Type C 511X01 above.
Specify: (1) Type Number. (2) Differential Setting.

Safety Limit Switch—Type C 512X01

Type C 512X01 is the same as Type C 511X01, above, except opens high; closes low. Incorporates standard enclosed Magneseal contact unit. For use as a safety limit switch to automatically shut down the heating plant when bonnet temperatures reach an unnecessarily high point, regardless of the cause. Both cut-in and cut-out points are easily adjusted by means of indicating pointers on the face of the calibrated dial. Transparent window in cover for reading approximate bonnet temperature. Maximum shank extension into bonnet—8″. Longer shanks available at additional cost.

SPECIFICATIONS

Range: 75° F. to 350° F. (Adjustable.)
Differential: Adjustable from 18° F. to 75° F.
Electrical Rating: Same as Type C 511X01 above.
Specify: (1) Type Number.

Safety Limit Switch—Type C 512

Type C 512 is for the same applications as Type C 512X01, above, but does not incorporate temperature indicating window in cover. Also has factory set non-adjustable differential.

SPECIFICATIONS

Range: 150° F. to 300° F. (Adjustable).
Differential: Factory set 18° F. to 30° F. as specified by buyer.
Electrical Rating: Same as Type C 511X01 above.
Specify: (1) Type Number. (2) Differential Setting.

Combination Fan and Limit Switch—Type C 515X01

Type C 515X01 Combination Fan and Safety Limit Switch incorporates two separate standard enclosed Magneseal contact units, one which controls fan operation, the other acting as a safety limit switch. Each set of contacts makes and breaks its own circuit irrespective of the action of the other. Both fan and limit settings are completely and easily adjusted by means of indicating pointers on the face of the calibrated dial. Regularly supplied with adjustable ball-and-socket mounting flange permitting the control to be mounted in any type of bonnet. Maximum shank extension into bonnet—8″. Longer shanks available at additional cost.

SPECIFICATIONS

Fan Range: 75° F. to 250° F. (Adjustable.)
Fan Differential: 18° F. to 75° F. (Adjustable.)
Limit Range: 100° F. to 350° F. (Adjustable.)
Limit Differential: 18° F. to 75° F. (Adjustable.)
Electrical Rating: Same as Type C 511X01 above.
Specify: Type Number.

RELAYS

Low Voltage Pilot Relay—Type C 700

Type C 700 Relay is a two pole, single throw, double break switch arranged for low voltage, pilot service operation. For use where 20 to 25 volt current is already available for pilot circuit. (Does not incorporate low voltage transformer—See Type C 791, below.) Closing a low voltage circuit across the pilot terminals by a snap-acting control energizes the relay coil, thus closing the main or line voltage contacts.

SPECIFICATIONS

Load Circuit: ½ H.P. 110 Volts A.C.; 1 H.P. 220 V. A.C.; 15 Amps. 110-220 Volts A.C. Non-Ind. (50 or 60 Cycle Standard). Available for odd frequencies at slight additional cost.
Pilot Circuit: 20 to 25 Volts, .4 Amp.
Specify: (1) Type Number. (2) Cycles.

Line Voltage Pilot Relay—Type C 710

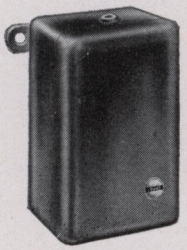
Type C 710, same as Type C 700 described above, except for line voltage pilot service.

SPECIFICATIONS

Load Circuit: Same as Type C 700 above.
Pilot Circuit: 110 Volts, 60 Cycles. Available for 220 Volts and odd frequencies at slight additional cost.
Specify: (1) Type Number. (2) Volts (Pilot circuit). (3) Cycles (Pilot circuit).

RELAYS AND TRANSFORMERS

Low Voltage Relay and Transformer—Type C 791



Type C 791 Relay is a combined low voltage (24 V.) pilot relay and transformer. Relay contacts are double pole, double break, single throw. Main contacts are closed when relay coil is energized by closing the circuit across the secondary terminals on the transformer with a snap-acting switch. When Crane auxiliary heat actuated thermostat is used to control the pilot circuit, specify A-4 Thermostat.

SPECIFICATIONS

Load Circuit: 1 H.P. 110-220 Volt A.C.; 20 Amps. 110-220 Volt A.C. Non-Ind.
Pilot Operating Circuit: 24 Volts, .4 Amp.
Transformer: (Standard) 110/24 Volt, 50 or 60 Cycles. Available with 220/24 V. transformer and for odd frequencies at slight additional cost.
Specify: (1) Type Number. (2) Volts. (3) Cycles.

Low Voltage Relay and Transformer—Type C 703



Type C 703 Relay is a universal low voltage pilot relay and transformer, incorporating—(1) single pole, double throw low voltage relay contacts, and, (2) single pole, single throw line voltage relay contacts. It is designed for the control of three-wire "Series 20" equipment with a two-wire snap-acting thermostat or low voltage pilot switch; also for control of two-wire equipment with "Series 10" or "Series 20" thermostat or safety limit switch. Also adaptable for a variety of domestic heating circuits involving fan or blower equipment or water circulators. Two separate main contact structures are incorporated in the relay mechanism. One of the main contact units is a single pole, single throw, double break line voltage switch which closes when the relay is energized by the closing of the pilot circuit. The other main contact unit is a single pole, double throw, low voltage switch connected to three low voltage terminals on an independent bakelite panel on the side of the case. These terminals are marked "White," "Red," "Blue." When the relay coil is energized the circuit across the "Red" and "Blue" terminals is closed. When the relay is de-energized, the circuit across "Red" and "White" is closed. Thus the Type C 703 makes it possible to control a three-wire low voltage circuit and a two-wire line voltage circuit by means of a single two-wire low voltage pilot. When Crane auxiliary heat actuated thermostat is used to control the pilot circuit, specify A-4 Thermostat.

SPECIFICATIONS

Relay Contacts: Line Voltage (Load) Single Pole, Single Throw. Low Voltage (Pilot) Single Pole, Double Throw. 2 Amps. 25 V. Max.
Load Circuit: ½ H.P. 110 Volts A.C.; 1 H.P. 220 Volts A.C.; 15 Amps. 110-220 Volts A.C. Non-Ind.
Pilot Operating Circuit: 24 Volts, .4 Amp.
Transformer: (Standard) 110/24 Volts, 50 or 60 Cycles. Available 220/24 Volts and for odd frequencies at slight additional cost.
Specify: (1) Type Number. (2) Volts. (3) Cycles.

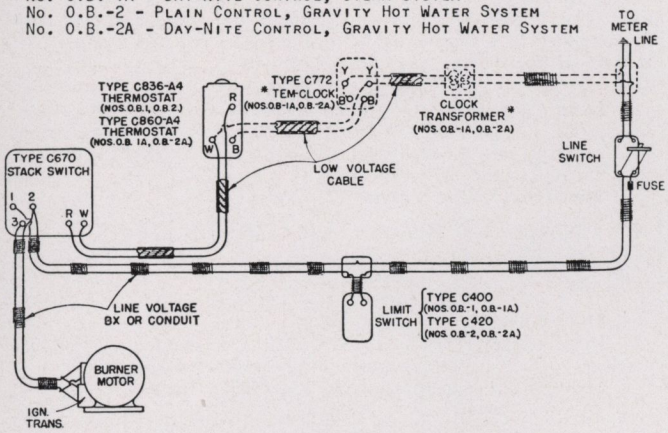
Other **CRANE** *Controls are available for miscellaneous applications—Consult your* **CRANE** *Branch or Wholesaler*

OIL BURNER CONTROL CIRCUITS

Steam or Gravity Hot Water System

THIS DIAGRAM COVERS THE FOLLOWING CRANE CONTROL SETS--

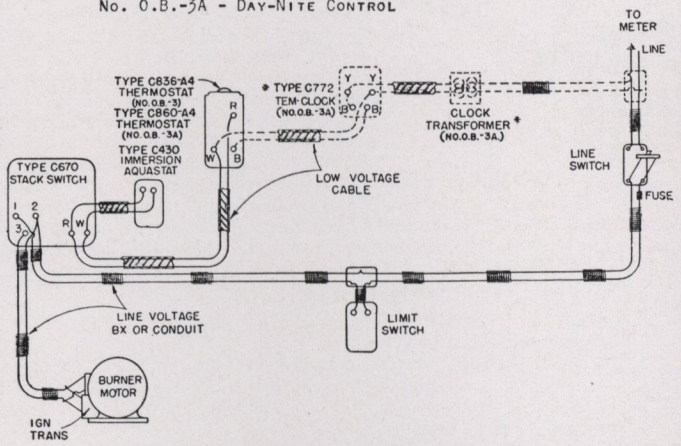
No. O.B.-1 - PLAIN CONTROL, STEAM SYSTEM
No. O.B.-1A - DAY-NITE CONTROL, STEAM SYSTEM
No. O.B.-2 - PLAIN CONTROL, GRAVITY HOT WATER SYSTEM
No. O.B.-2A - DAY-NITE CONTROL, GRAVITY HOT WATER SYSTEM



Steam System, Domestic Hot Water

THIS DIAGRAM COVERS THE FOLLOWING CRANE CONTROL SETS--

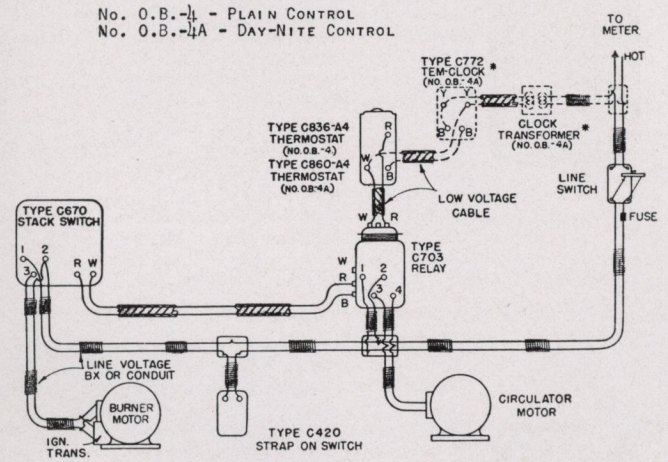
No. O.B.-3 - PLAIN CONTROL
No. O.B.-3A - DAY-NITE CONTROL



Forced Circulation Hot Water System

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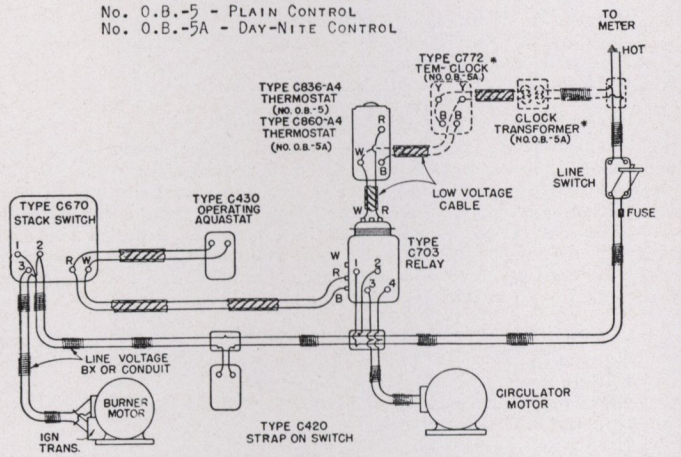
No. O.B.-4 - PLAIN CONTROL
No. O.B.-4A - DAY-NITE CONTROL



Forced Circulation Hot Water System with Domestic Hot Water

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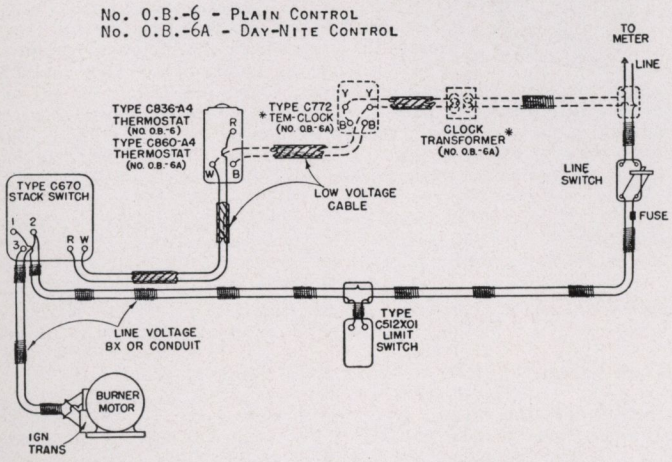
No. O.B.-5 - PLAIN CONTROL
No. O.B.-5A - DAY-NITE CONTROL



Gravity Warm Air System

THIS DIAGRAM COVERS THE FOLLOWING CRANE CONTROL SETS--

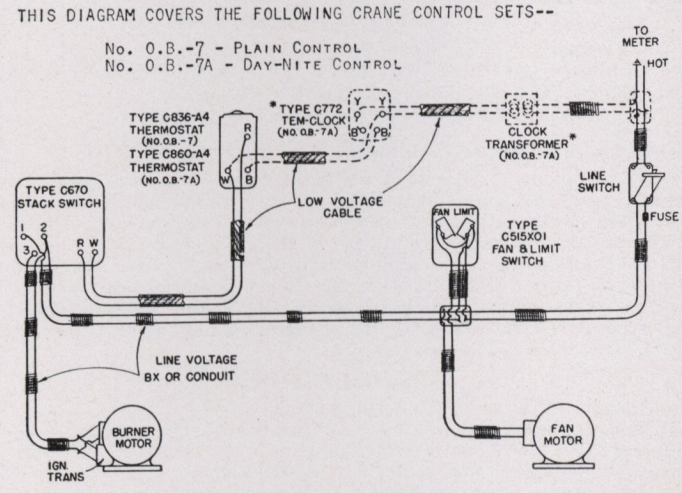
No. O.B.-6 - PLAIN CONTROL
No. O.B.-6A - DAY-NITE CONTROL



Forced Warm Air System

THIS DIAGRAM COVERS THE FOLLOWING CRANE CONTROL SETS--

No. O.B.-7 - PLAIN CONTROL
No. O.B.-7A - DAY-NITE CONTROL



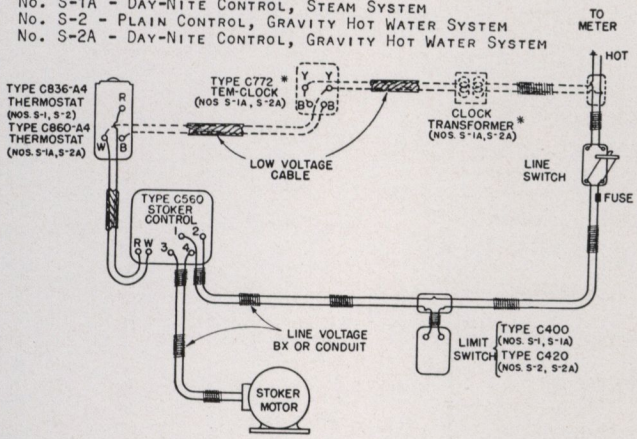
*CONTROLS AND CIRCUITS SHOWN BY DOTTED LINES CONNECTED ONLY FOR DAY-NITE CONTROL

STOKER CONTROL CIRCUITS

Steam or Gravity Hot Water System

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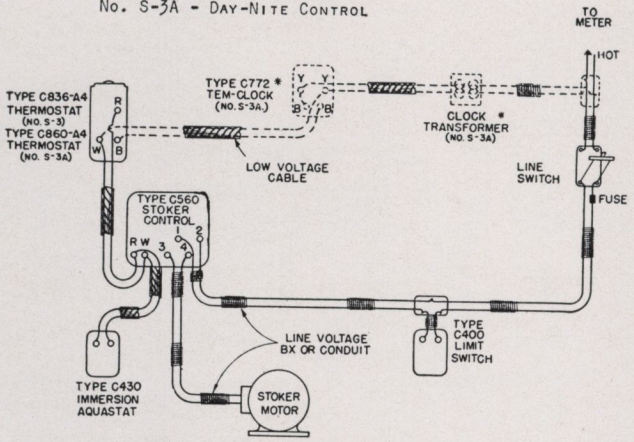
No. S-1 - Plain Control, Steam System
No. S-1A - Day-Nite Control, Steam System
No. S-2 - Plain Control, Gravity Hot Water System
No. S-2A - Day-Nite Control, Gravity Hot Water System



Steam System, Domestic Hot Water

THIS DIAGRAM COVERS THE FOLLOWING CRANE CONTROL SETS--

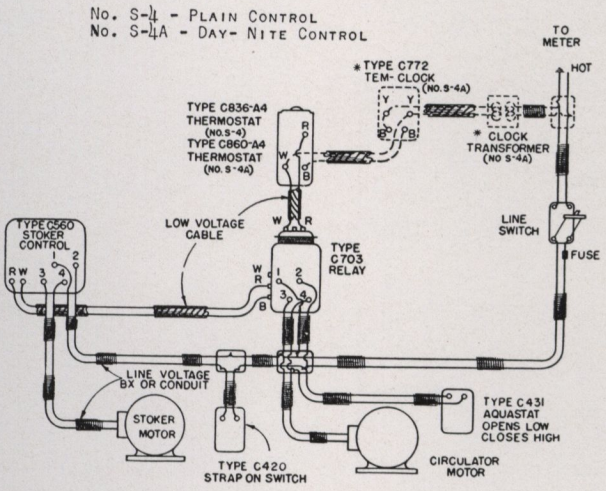
No. S-3 - Plain Control
No. S-3A - Day-Nite Control



Forced Circulation Hot Water System

THIS DIAGRAM COVERS THE FOLLOWING CRANE CONTROL SETS--

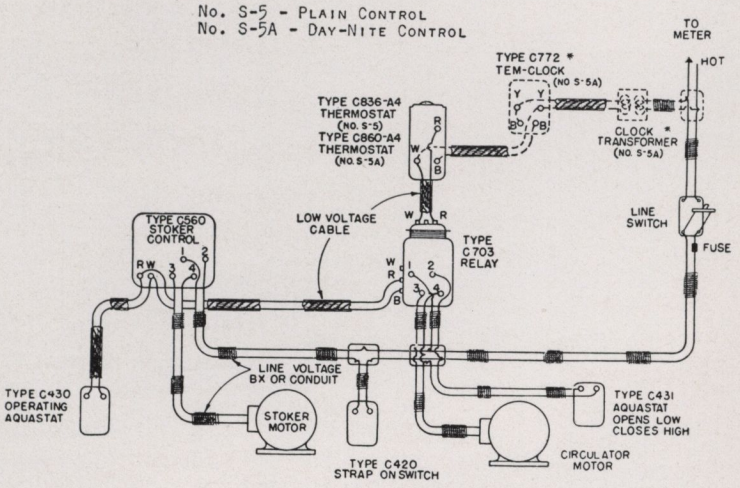
No. S-4 - Plain Control
No. S-4A - Day-Nite Control



Forced Circulation Hot Water System with Domestic Hot Water

THIS DIAGRAM COVERS THE FOLLOWING CRANE CONTROL SETS--

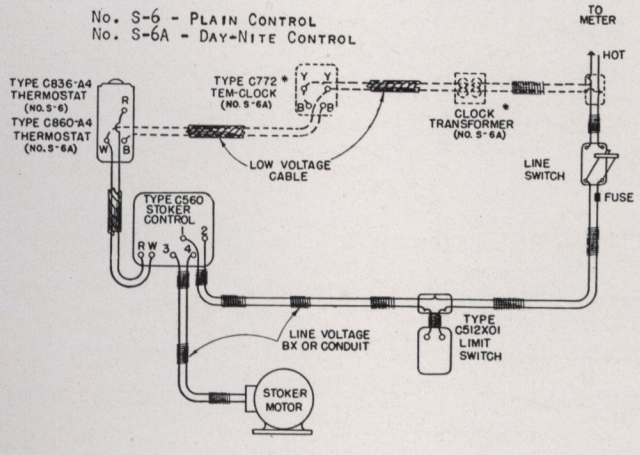
No. S-5 - Plain Control
No. S-5A - Day-Nite Control



Gravity Warm Air System

THIS DIAGRAM COVERS THE FOLLOWING CRANE CONTROL SETS--

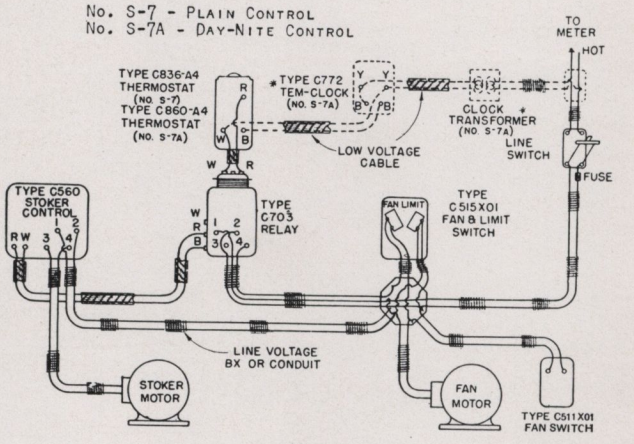
No. S-6 - Plain Control
No. S-6A - Day-Nite Control



Forced Warm Air System

THIS DIAGRAM COVERS THE FOLLOWING CRANE CONTROL SETS--

No. S-7 - Plain Control
No. S-7A - Day-Nite Control



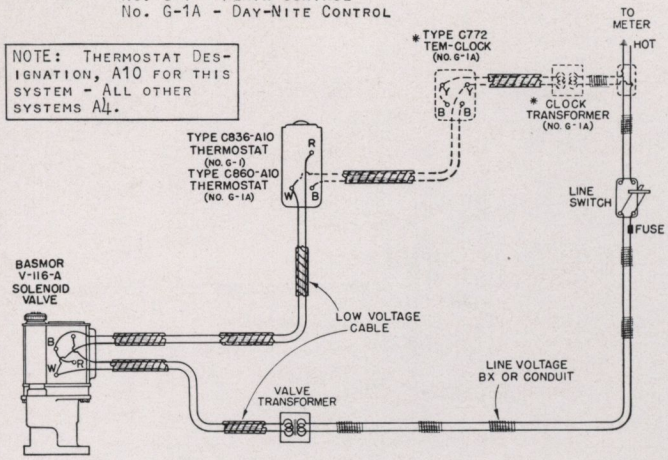
*Controls and circuits shown by dotted lines connected only for Day-Nite Control

GAS BURNER CONTROL CIRCUITS

Steam or Gravity Hot Water System

THIS DIAGRAM COVERS THE FOLLOWING CRANE CONTROL SETS--

No. G-1 - PLAIN CONTROL
No. G-1A - DAY-NITE CONTROL

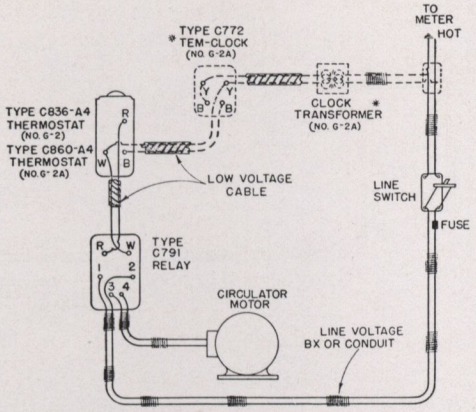


Forced Circulation Hot Water System

Water Temperature Regulated by Limit Switch

THIS DIAGRAM COVERS THE FOLLOWING CRANE CONTROL SETS--

No. G-2 - PLAIN CONTROL
No. G-2A - DAY-NITE CONTROL

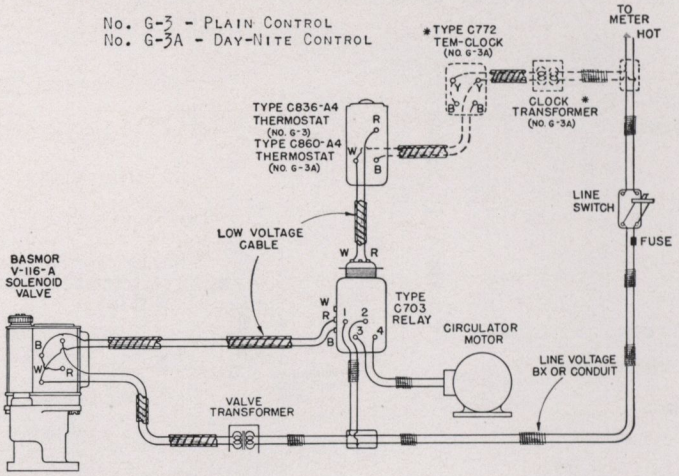


Forced Circulation Hot Water System

Thermostat to control both circulator and burner

THIS DIAGRAM COVERS THE FOLLOWING CRANE CONTROL SETS--

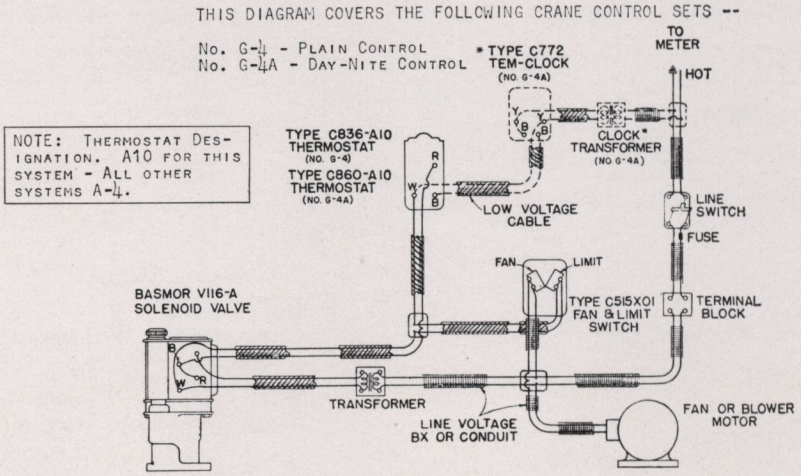
No. G-3 - PLAIN CONTROL
No. G-3A - DAY-NITE CONTROL



Crane-Basmor Warm Air Conditioner

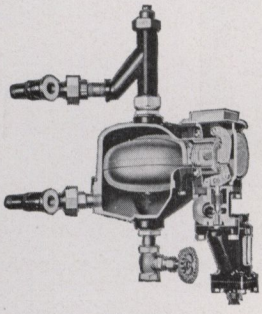
THIS DIAGRAM COVERS THE FOLLOWING CRANE CONTROL SETS --

No. G-4 - PLAIN CONTROL
No. G-4A - DAY-NITE CONTROL



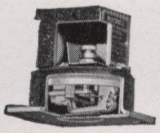
*CONTROLS AND CIRCUITS SHOWN BY DOTTED LINES CONNECTED ONLY FOR DAY-NITE CONTROL

McDONNELL BOILER FEEDERS AND LOW WATER CUT-OFFS



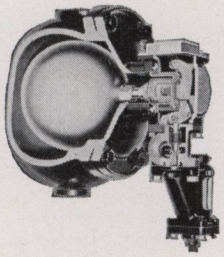
No. 47

Boiler Feeder with Quick-Hook-Up for boilers below 5,000 sq. ft. capacity.



No. 2

Low Water Cut-off Switch used on the No. 47 or No. 51 Boiler Feeders to convert them into combined Feeders and Cut-offs when installed on automatically fired boilers.



No. 51

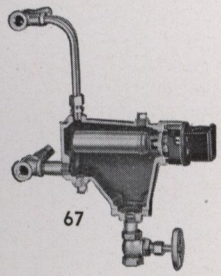
Boiler Feeders for boilers above 5,000 sq. ft. capacity.

BOILER WATER FEEDERS

The water feeding requirements of most steam heating boilers are covered by the two McDonnell Boiler Feeders, illustrated above—the No. 47 for boilers below 5,000 square feet capacity (maximum steam pressure 25 lbs.) and the No. 51 for boilers above 5,000 square feet capacity (maximum steam pressure 25 lbs.). Special types are available for boilers with higher steam pressures as shown in the table of service recommendations below.

WATER FEEDER LOW WATER CUT-OFF COMBINATIONS

When installed on automatically fired boilers, these Feeders are equipped with the No. 2 Low Water Cut-off Switch shown above. The switch may be purchased separately and added to the No. 47 or No. 51, or the Feeders may be purchased with the switch mounted in place, in which case they are designated as No. 47-2 or No. 51-2. These Feeder Cut-off Combinations offer the convenience of automatic water feeding plus the protection of the Low Water Cut-off Switch. They make the boiler water level as automatic as the firing.

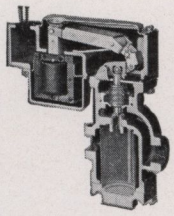


No. 67

Low Water Cut-off (with Quick-Hook-Up and two-switch mechanism) for pressures up to 25 lbs.

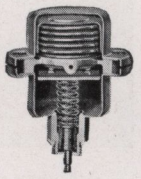
WATER FEEDER CONSTRUCTION

All McDonnell Boiler Feeders have the "cool feed valve," a design which isolates the feed valve from the heat of the float chamber, thus preventing the water from reaching the critical temperature at which lime and scale is deposited on the valve and seat. They are also equipped with stainless steel valves, have straight-thrust (cam-and-roller) valve action and large, 16 square inch strainer mounted in place. All Feeders and Cut-offs are packless. The No. 47 (or No. 47-2) is equipped with the patented Quick-Hook-Up) a design which permits installation in the gauge-glass tappings, saving installation time and assuring accurate reproduction of water level conditions in small boilers. The No. 51 (or No. 51-2) for larger boilers is installed with 1-inch equalizing pipes.



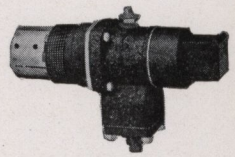
No. 101

Electric Water Feeder for converting No. 67 or No. 71 into Feeder Cut-off Combinations.



No. 13

Pressure Limit Control for converting No. 67 or No. 71 into combined low water cut-off and pressure control.



No. 71

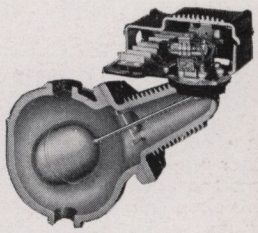
"Built-in" type low water cut-off used in Crane Boiler-Burner Units.

LOW WATER CUT-OFFS

The McDonnell No. 67 Low Water Cut-off for automatically fired boilers is illustrated at the left. In addition to the low water cut-off switch which stops the burner when the boiler water level drops to the danger zone, it contains an added switch which closes on a small drop in the water level to operate the McDonnell No. 101 Electric Water Feeder illustrated above. In this way the No. 67 can, at any time, be converted into a feeder-cut-off combination. This same two-switch mechanism is also incorporated in the McDonnell No. 71 which is a standard built-in unit on Crane Boiler-burner Units. Thus the No. 101 may also be added to these No. 71 built-in cut-offs.

The No. 67 and No. 71 Low Water Cut-offs are also provided with tappings for the McDonnell No. 13 Pressure Limit Control illustrated above. This converts the No. 67 or No. 71 into a combined low water cut-off and pressure control. No wiring or piping is necessary.

The No. 150 (opposite) is for high pressure boilers. It may be used as a low water cut-off, pump control, low water alarm or for any combination of these functions. The following table covers all conditions:



No. 150

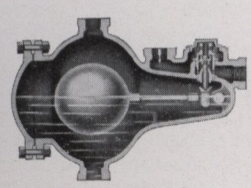
High Pressure Control.

SERVICE RECOMMENDATIONS

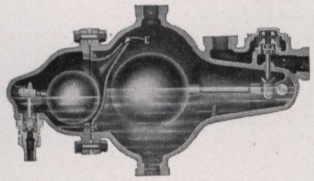
Boiler Size	Steam Pressure	McDonnell product to use
For Hand Fired Jobs		
Up to 5000 sq. ft.	Under 25 lbs.	No. 47 Water Feeder
Above 5000 sq. ft.	Under 25 lbs.	No. 51 Water Feeder
Any size	25 to 75 lbs.	No. 53 Water Feeder
For Automatically Fired Jobs		
Water Feeder—Low Water Cut-off Combinations		
Up to 5000 sq. ft.	Under 25 lbs.	No. 47-2 Feeder Cut-off Combination
Up to 5000 sq. ft.	Under 25 lbs.	No. 67-101 Electric Feeder Cut-off Combination
Above 5000 sq. ft.	Under 25 lbs.	No. 51-2 Feeder Cut-off Combination
Any size	25 to 75 lbs.	No. 53-2 Feeder Cut-off Combination
Low Water Cut-offs		
Any size	Under 25 lbs.	No. 67 Low Water Cut-off
Any size	25 to 150 lbs.	No. 150 Low Water Cut-off
Low Water Cut-off—Pressure Control Combination		
Any size	Off at 3 lbs. On at 1 lb.	No. 67-13 Combined Cut-off and Pressure Control

(Industrial or Process boilers—Specific recommendations on receipt of complete data.)

McALEAR WATER FEEDERS



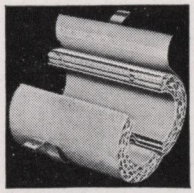
No. 816 Simplex



No. 826 Duplex

With the exception of the flanged heads, the Simplex and Duplex Water Feeders are exactly alike. These flanges, however, are readily interchangeable. Thus, if it is found after installing a Simplex feeder, that the Duplex would be more suitable for the service, the Duplex flange can be easily substituted, at a slight additional cost, without disturbing the pipe connections. All working parts are made of non-corrosive metals and are readily accessible without breaking pipe connections or using special tools. Shipping weight, Simplex 40 lbs.; Duplex 50 lbs.

PIPE COVERING AND INSULATION MATERIALS

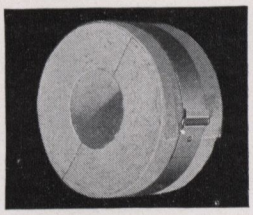


C 39910

PRE-SHRUNK ASBESTOCEL (Coarse Corrugated)

For Low Pressure Steam or Hot Water Piping

Made of water-proofed asbestos paper which minimizes shrinkage. Furnished in standard pipe sizes, 3 ft. long sections—2 ply (½″), 3 ply (¾″) and 4 ply (1″). Also furnished "Fine Corrugated" in 4 ply (⅔″), 6 ply (1″) and 9 ply (1½″). The small corrugations provide greater strength and efficiency.



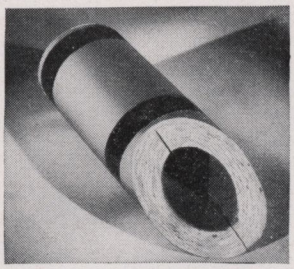
C 39920

85% MAGNESIA

For Temperatures to 600 deg. F.

Combines the high insulating qualities of carbonate of magnesia and asbestos, affording a light, efficient insulation. Furnished in standard pipe sizes, 3 ft. long sections in standard thickness (appr. 1″).

Can also be furnished in greater thicknesses.

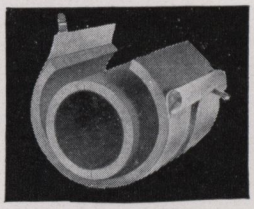


C 39930

WOOL FELT

For Hot or Cold Water

An effective and economical insulation for water pipes. The felt is waterproofed to prevent the absorption of moisture in storage. This eliminates objectionable drying, shrinking and pulling apart at joints after application. Furnished in standard pipe sizes, 3 ft. long sections, in thicknesses of ½″, ¾″, 1″, double ½″ and double ¾″.



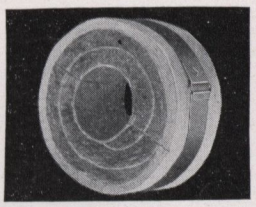
C 39932

ANTI-SWEAT

For Cold Water Pipes

A combination of insulating and waterproofing felts to prevent condensation and dripping. Each layer of insulation is staggered, which assures protection.

Furnished in standard pipe sizes, 3 ft. long sections in thicknesses of ½″, ¾″ and 1″ (double).



C 39940

ZERO

To prevent cold water pipes from freezing under ordinary conditions.

Constructed of layers of hair felt surrounded by several layers of wool felt, with a layer of saturated wool felt inside the hair felt to prevent the hair from coming in direct contact with the pipe.

When this material is applied to pipes running out-of-doors, special provision should be made for weatherproofing the insulation.

Made in one thickness, approx. 1¼″, in standard pipe sizes.

INSULATING BLOCKS

Asbestocel blocks are furnished in standard thicknesses, 4 plies per inch in sizes 36x36″, 18x36″, 12x36″ and 6x36″. Weight about 1 lb. per sq. ft. per inch of thickness.

85% Magnesia blocks are furnished in standard sizes 3″x18″ and 6″x36″, from ½″ to 4″ in thickness. Weight about 1.4 lb. per sq. ft. per inch of thickness.

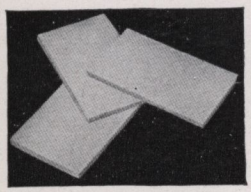
C 39950—ASBESTOS SHEET MILLBOARD No. 106

Recommended for general use requiring sheet or board for protection against fire, heat, acid fumes, etc. Frequently used as a fireproof lining for floors, partitions, ceilings, elevator shafts, ranges, stoves, grates, gas backs, etc. It also has many industrial uses. The size of the standard sheet is 42″x48″. Shipped in crates containing appr. 350 lbs. Thickness 1/32″ to ¾″, 1/32″ weighs appr. 2½ lbs. per sheet, ⅛″ 9 lbs., ¼″ 17½ lbs., ½″ 31½ lbs., ¾″ 46½ lbs.

C 39960—ASBESTOS PAPER

Asbestos Paper, like millboard, is recommended and used principally for protection against heat, or as a fire retardant where an insulation material of minimum thickness is required.

Furnished in standard rolls, 18″, 24″ and 36″ wide, weighing 50 or 100 pounds per roll, in thickness of 1/64″ to 1/16″ weighing appr. 6 to 32 lbs. per 100 sq. ft.



C 39950

ASBESTOS SHEET MILLBOARD



C 39970

HAIR FELT

For temperatures below 200 degrees F.

Used for various insulating purposes. Furnished 6 ft. wide x 50 ft. long, 3 ft. wide x 100 ft. long and 9 ft. wide x 50 ft. long. Thicknesses ¼, ½, ¾, 1, 1¼, 1½ and 2 inches. Weight per sq. ft. from 4 to 24 ounces.



C 39980

ASBESTOS CEMENT

No. 0352—Insulating Cement, for temperatures to 1000 deg. F. is used extensively for insulating boilers and fittings. Packed in 100 lb. bags—covering capacity 19 sq. ft., 1″ thick, per bag.

No. 400—for temperatures to 700 deg. F. A smooth-finishing product—covering capacity, 25 sq. ft., 1″ thick, per bag of 100 lbs.

85% Magnesia Cement—for temperatures to 600 deg. F. Packed in 60 lb. bags—covering capacity 35 sq. ft., 1″ thick per bag.



C 39984

ROCK WOOL

A lightweight effective insulating material. Safe temperature limit 1000 deg. F. Furnished loose unless otherwise specified. Also furnished granulated. Packed in 35 lb. paper bags or in 50 lb. burlap bags.

ALLEN 'BOWES' SWINGING HOSE RACKS

(For Unlined Linen Hose)



Fig. 137
STYLE E
WITH WALL BRACKET

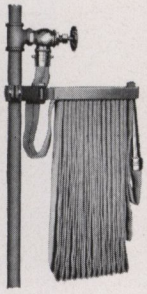


Fig. 138
STYLE F
WITH PIPE CLAMPS

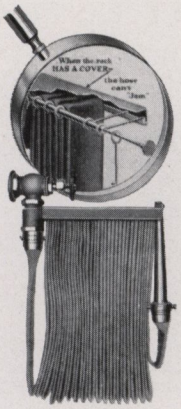


Fig. 139
STYLE G
WITH VALVE NIPPLE

For 1¼ to 2½-inch hose in capacities of 50, 75 and 100 feet.

As indicated, these racks can be furnished with either pipe clamps or wall brackets.

If pipe clamps are wanted, specify size of pipe. In ordering, specify style of rack, size of hose and finish desired.

ALENCO FIRE EXTINGUISHER CABINET

Made in Alenco Hollow Metal Construction or Nella Sheet Steel Construction.

The Alenco recessed type is illustrated; exposed type to fasten on outside of wall also made. Doors furnished with full glass panel or with duo-panel. 2½ gal. Underwriters' Approved First Aid Chemical Fire Extinguisher is protected by the cabinet, discourages tampering or discharging extinguisher and makes it readily available in case of emergency.



Fig. 285

Made to hold one extinguisher. Can also be made to hold two or more extinguishers.

AUTOMATIC BALL DRIPS

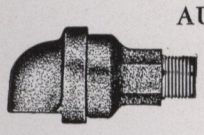


Fig. 2112

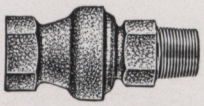


Fig. 2112 N.Y.

An automatic ball drip should always be placed at lowest point in standpipe between inside check valve and the Siamese or valve connection. This drip will close against pressure, but, after pressure is off, will automatically drain this portion of the pipe and prevent the Siamese from freezing.

Fig. 2112—½ inch only. Threaded one end. One end open.

Fig. 2112NY—¾ inch only. Threaded both ends. Required by New York City Fire Department.

ALLEN FIRST AID FIRE EXTINGUISHER

Labeled by Fire Underwriters.

2½-gal. Soda and Acid Fire Extinguisher. (*Illustrated at left.*) Hang on bracket with upper rim 5 ft. from the floor; or install in an extinguisher steel cabinet (specifications on request); or place in cabinet with the Fire Hose Unit.



Fig. 3080

ALLEN'S REDDY HAND EXTINGUISHER

Labeled by Fire Underwriters.

1 or 1½-qt. size. (*Cut at right.*) For fires in greases, paints, and electrical equipment. Pump type. Hang on a bracket; or install in cabinet with the Fire Hose Unit.



Fig. 3767

'ALLEN FOAM' 2½-GAL. FIRE EXTINGUISHER FIG. 3450

Labeled by Fire Underwriters

Not illustrated. For Class A fires (ordinary) and Class B fires (inflammable liquids, oils, etc.).

ALLEN CONCEALED (OR FLUSH) TYPE SIAMESE—STRAIGHTWAY OR ANGLE TYPE BODY



Fig. 283 Siamese (Inlet) with Sill Cock—Patented

Allow a minimum of 6 inches between the bottom of the sill cock and the ground for attaching hose.

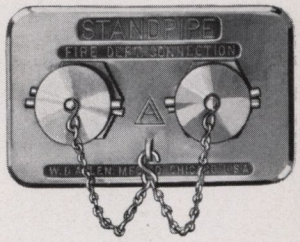


Fig. 276 Siamese (Inlet) Without Sill Cock

Finishes: Bronze, highly polished. Made of bronze, chromium plated and highly polished. Made of white metal, highly polished.

A "*Safety*" *Siamese*—it is *safe* for pedestrians, as it extends only 4⅜-in. from the wall, and is *safe* modern fire protection that is approved by the Underwriters' Laboratories, Inc.* Allen's design solves the problem presented by the restricted sidewalk space in crowded metropolitan districts. The body of the Siamese with its two independent self-closing clapper valves can be placed inside the building, or if space prevents, can be built into the wall of the building during construction. When the building is completed, the plate and the two independent swivel inlets are attached to the body of the Siamese by means of the required length pipe nipples.

Fig. No.	Sill Cock	Inlets, Inches	Outlets, Inches	Height, Inches	Width, Inches	To Wall, Inches
283	With	2½x2½	4	14¾	15¾	4¼
276	Without	2½x2½	4	9½	15¾	4
283	With	2½x2½	6	14¾	15¾	4¼
276	Without	2½x2½	6	9½	15¾	4
283*	With	3 x3	4	15	15¾	4⅜
276*	Without	3 x3	4	10½	15¾	4⅛
283*	With	3 x3	5	15	15¾	4⅜
276*	Without	3 x3	5	10½	15¾	4⅛
283*	With	3 x3	6	15	15¾	4⅜
276*	Without	3 x3	6	10½	15¾	4⅛

**Approved by New York City.*

FIRE DEPARTMENT CONTROL UNITS

Required by the City of Chicago. For making private high pressure systems available to the fire department by using the regular Siamese (inlet) and also installing a wall hydrant (outlet) and exterior valve control. Complete information and diagrams on request.

ALLEN STANDPIPE SIAMESE



Fig. 221—Straight

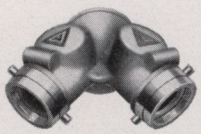


Fig. 31—45 Degree

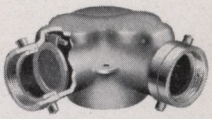


Fig. 230—90 Degree

Made of heavy cast bronze to Underwriters' requirements with an independent interior self-closing clapper valve in each opening. An escutcheon, Fig. 265 or plate, Fig. 264 should be specified to designate the service the Siamese is intended for. Plugs and chains or "Sensible" Caps are extra. Specify rough or polished bronze; or chromium plated polished.

Fig. 221, Short Straightway—for opening through wall. 2½ x 2½ x 4 in., 2½ x 2½ x 6 in., *3 x 3 x 4 in., *3 x 3 x 5 in., *3 x 3 x 6 in.

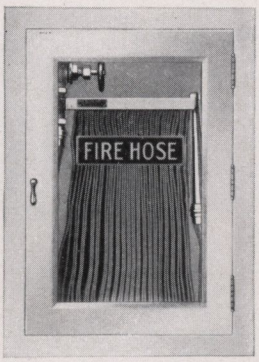
Fig. 31, 45-Degree—for opening through wall. 2½ x 2½ x 3 in., 2½ x 2½ x 4 in., 2½ x 2½ x 5 in., 2½ x 2½ x 6 in., 3 x 3 x 4 in.

Fig. 230, 90-Degree—for opening through the sidewalk. 2½ x 2½ x 3 in., 2½ x 2½ x 4 in., 2½ x 2½ x 6 in., *3 x 3 x 4 in., *3 x 3 x 5 in., *3 x 3 x 6 in., 3½ x 3½ x 6 in.

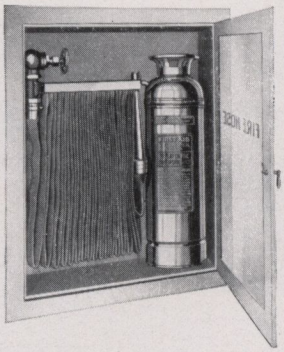
**Approved by the New York City fire Department and bears the Calendar Number of the New York Board of Standards and Appeals.*

"ALLEN" STEEL FIRE HOSE UNIT CABINETS

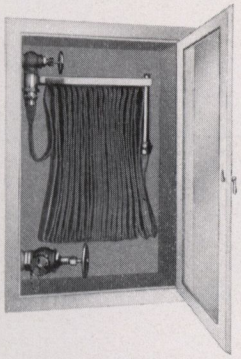
TWO TYPES OF CONSTRUCTION—HOLLOW METAL STEEL DOOR—OR—SHEET STEEL



Hose Unit 6. With one valve, supply from the side. The unit can be furnished with or without a cabinet, specify construction. Fig. 139 Allen Bowes Hose Rack. Fig. 171 Fire Line Angle Hose Valve. Underwriters' Linen Hose, 1¼, 1½, 2 or 2½ inch size by 50, 75, or 100 feet. Fig. 101 Brass Hose Couplings. Fig. 97 Brass Hose Nozzle.

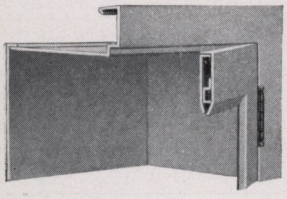


Hose Unit 16. With one valve, supply from the side and extinguisher. The unit can be furnished with or without a cabinet, specify construction. Fig. 139 Allen Bowes Hose Rack. Fig. 171 Fire Line Angle Hose Valve. Underwriters' Linen Hose, 1¼, 1½, 2 or 2½ inch size by 50, 75, or 100 feet. Fig. 101 Brass Hose Couplings. Fig. 97 Brass Hose Nozzle. Fig. 3080 2½-gallon soda and acid tip-over type Fire Extinguisher.



Hose Unit 9. With one 1½-inch and one 2½-inch valve supply from the side. With or without a cabinet, specify construction. Fig. 139U Allen Bowes Underwriters' Rack. Fig. 171 1½-inch Underwriters' Fire Line Angle Hose Valve. Underwriters' Linen Hose, 1¼, 1½, 2, or 2½ inch size by 50, 75, or 100 feet. Fig. 101 Brass Hose Couplings. Fig. 97 Brass Hose Nozzle. Fig. 170 2½-inch Fire Line Angle Hose Valve. Specify Fire Department Thread. Fig. 120 Brass Hose Cap and Chain.

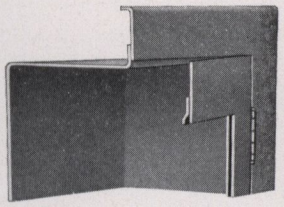
HOLLOW METAL STEEL DOOR CONSTRUCTION



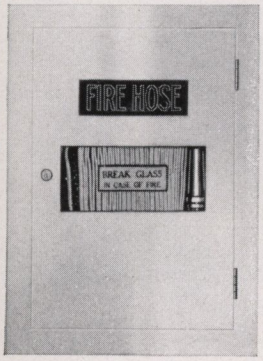
The detail illustrates the channel steel inner construction of the door. The standard trim, as shown, projects 1¼ inches from the finished wall. This construction gives the minimum wall recess requirements. Flat trim or any depth of trim can be made. The standard finish is white enamel inside and white PRIMING COAT outside. The finish coat should be applied at the job.

NELLA SHEET STEEL CONSTRUCTION

The projecting trim as illustrated has a ⅝-inch turned-over edge. Flat trim can be made. The body is made from 16 gauge sheet steel; the one piece door and one piece trim is 12 gauge sheet steel. The standard finish is a French gray PRIMING COAT inside and outside. They can also be furnished in any special finish to order.

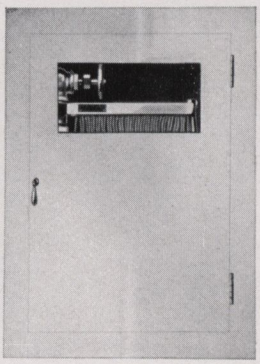


CABINETS WITH DUO-PANEL OR BREAK GLASS DOORS



Duo-Panel Door—Fig. 220A Alenco. Fig. 220N Nella. The door has a beveled plate glass panel (shipped separately) and a sheet steel beveled panel.

Break Glass Door—Fig. 275 Alenco. Fig. 275N Nella. The cabinet can be kept securely locked to prevent pilfering. The hose unit is visible and in case of fire the single strength glass panel is shattered.

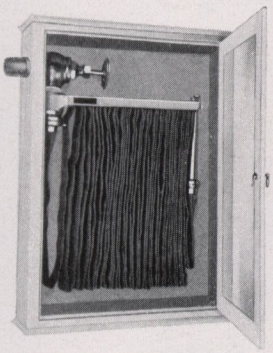


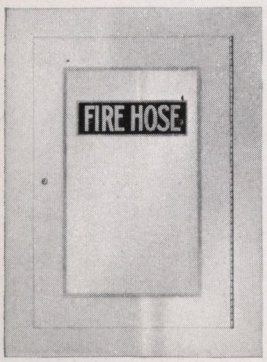
OUTSIDE WALL FIRE HOSE CABINETS

Recommended where wall depth is not available for recessed cabinets shown above.

Fig. 380—Alenco Hollow Metal Construction. In estimating wall space required, add 3¾ ins. to inside dimensions.

Fig. 380N—Nella Sheet Steel Construction. In estimating wall space required add 2 ins. to inside dimensions.



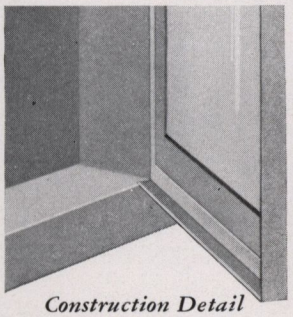


ALLEN'S "TAMPER PROOF" INSTITUTIONAL FIRE HOSE

These "Tamper Proof" Institutional Fire Hose Unit Cabinets *cannot be pried open* by the patients or inmates of asylums, sanitariums, prisons, and other institutions where the patients must be guarded against injury or where the fire apparatus must be protected against destruction.

The door and trim are made of 10-gauge steel. The one-piece steel door has a neat beveled panel and fits absolutely flush with the face of the cabinet.

The continuous heavy steel, semi-concealed piano type hinge is welded to the door and frame providing reinforcement. The one-piece hinge pin runs the entire length of the hinge and is centered with the face of the door. A flush fitting flat key cylinder lock is furnished. Write for further information.



Construction Detail

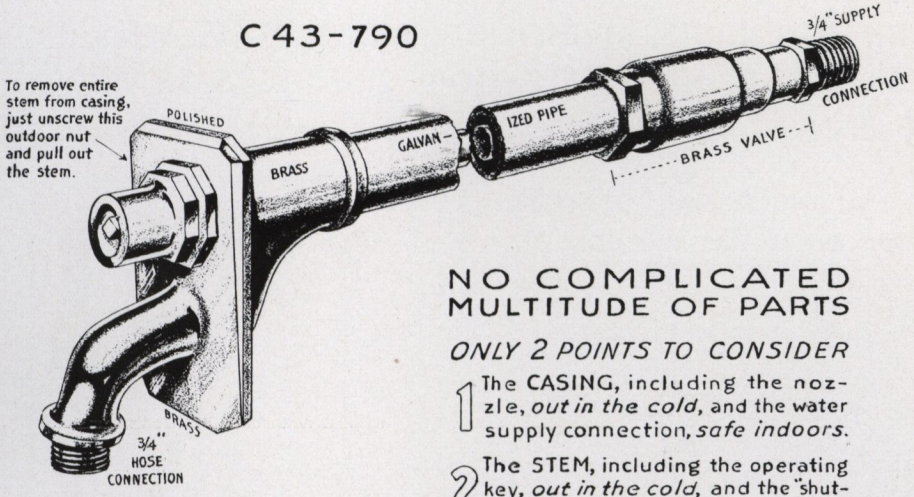
Shows heavy angle iron reinforcement around the inside of the steel door.

BUILT TO DEFY NATURE
ALL CASTINGS ARE MADE FROM HIGH QUALITY BRONZE

FREEZE-PROOF WALL HYDRANTS

Simple in construction and operation, complying with U.S. Gov'm't. requirements for outdoor withdrawal of working parts, if and when necessary.

C43-790

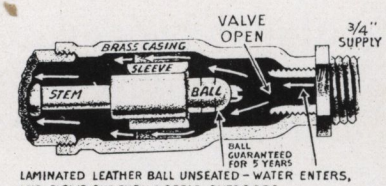


Practical simplicity that challenges comparison

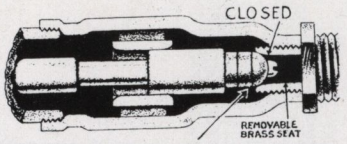
NO COMPLICATED MULTITUDE OF PARTS

ONLY 2 POINTS TO CONSIDER

1. The CASING, including the nozzle, *out in the cold*, and the water supply connection, *safe indoors*.
2. The STEM, including the operating key, *out in the cold*, and the "shut-off" ball, *safe indoors*.



LAMINATED LEATHER BALL UNSEATED – WATER ENTERS, AND FLOWS OUT THRU NOZZLE, OUTDOORS.



BALL SEATED – WATER SHUT OFF AT SUPPLY ENTRANCE. WATER REMAINING BETWEEN INDOOR VALVE AND OUTDOOR HOSE CONNECTION FLOWS DOWN CASING SLOPE – AND OUT.

SIZES

WALL THICKNESS	9" TO 13"	14" TO 19"	20" TO 25"
SHIPPING WT. WHEN PACKED	7 LBS.	9 LBS.	10 LBS.

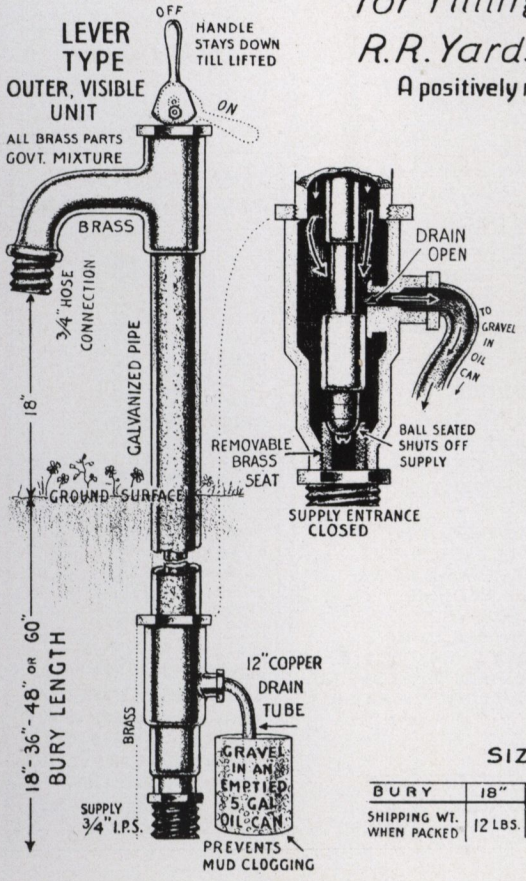
FREEZE-PROOF YARD HYDRANTS

for Filling Stations, Unheated Garages, R.R. Yards, Stock Yards, Farms, Cemeteries.

A positively non-freeze hydrant – now in use by major oil companies

LEVER TYPE OUTER, VISIBLE UNIT

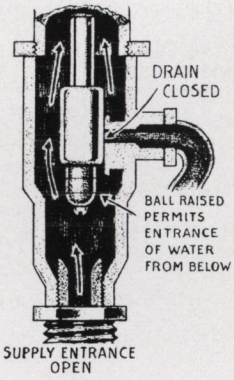
ALL BRASS PARTS GOVT. MIXTURE

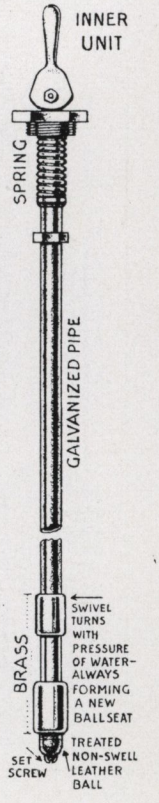


C43-792

So simply and durably constructed that, once it's installed, you may safely forget how it works – frigid weather, or hot – years upon years. Even the treated leather "shut-off" ball is guaranteed for five years, and is easily and quickly replaced – just unscrew the handle at top end and lift the entire inner part out of the casing – remove set screw, releasing the old ball.

Connected casing stays down.





C43-794

SELF CLOSING TYPE

differs from "6 type merely in handle. Round sides cause it to spring back to closed position when released.

Handles of both types can be removed to prevent mischievous tampering.

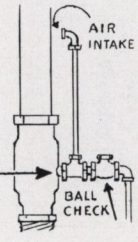


SIZES

BURY	18"	36"	48"	60"
SHIPPING WT. WHEN PACKED	12 LBS.	15 LBS.	18 LBS.	21 LBS.

Either type furnished with BACK SIPHON device if desired.

Price Extra Shp. Wt. 2 lbs.

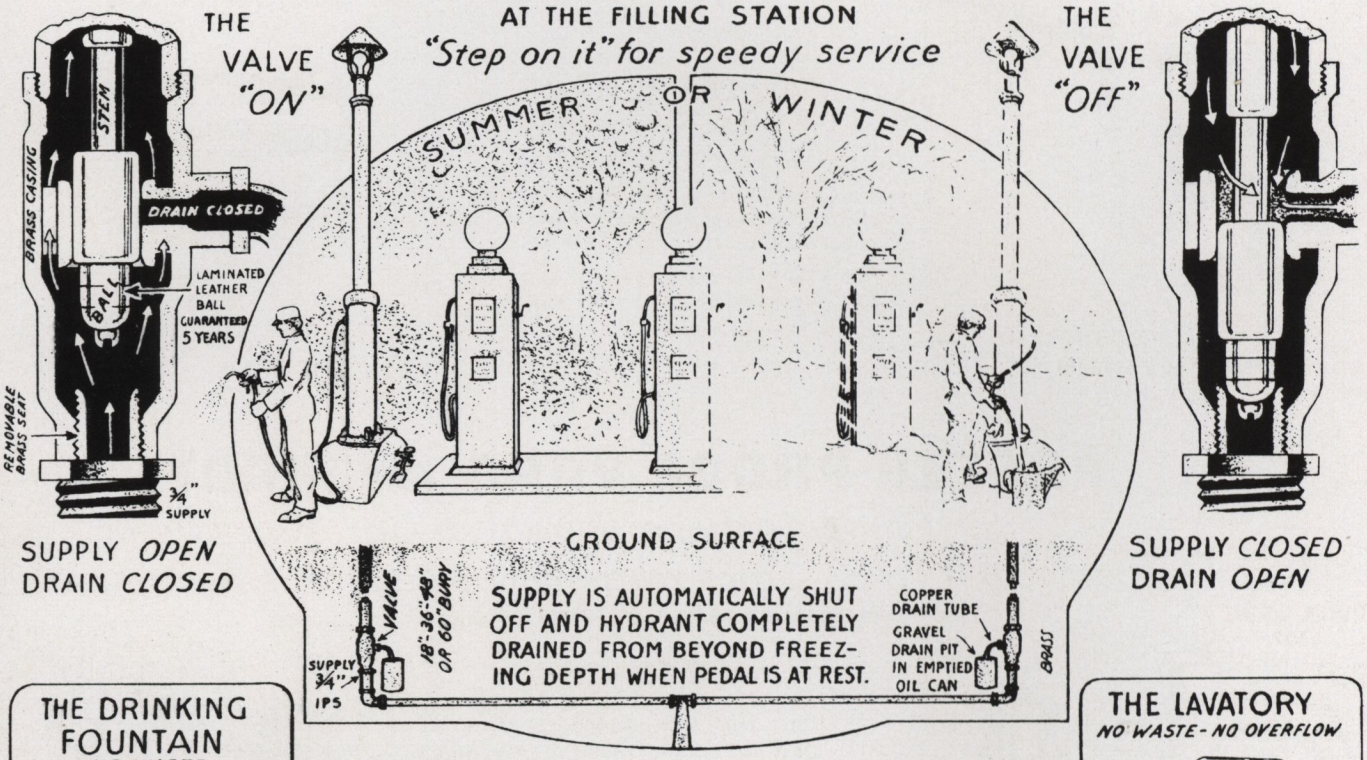


BUILT TO DEFY NATURE
ALL CASTINGS ARE MADE FROM HIGH QUALITY BRONZE

PEDAL ACTION SUPPLY VALVE, FREEZE PROOF

C43-795

Successfully used as the source connection for outdoor hydrants, drinking fountains, lavatories, sinks, tubs, vats, etc. to supply and automatically drain, after using, from distances safely remote from any freezing area.

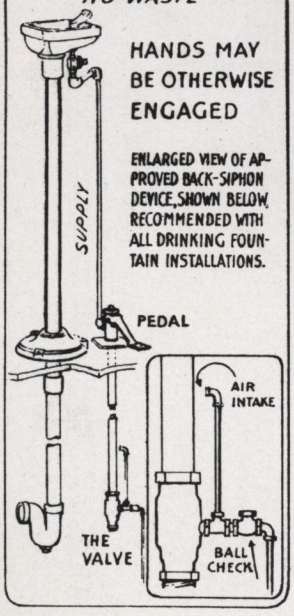


THE DRINKING FOUNTAIN

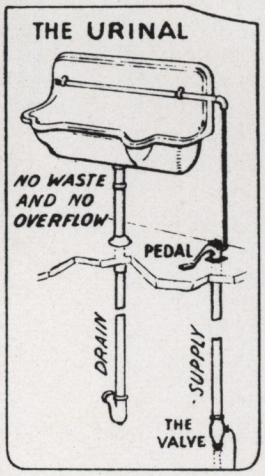
NO WASTE

HANDS MAY BE OTHERWISE ENGAGED

ENLARGED VIEW OF APPROVED BACK-SIPHON DEVICE, SHOWN BELOW, RECOMMENDED WITH ALL DRINKING FOUNTAIN INSTALLATIONS.

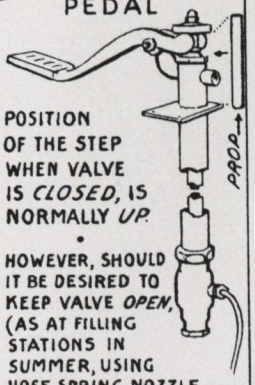


THE URINAL



- SAVES TIME
- ECONOMIZES ON WATER BILLS
- FACILITATES SERVICE TO PATRONS
- ELIMINATES MAINTENANCE EXPENSE AND WORRY
- TAKES CARE OF ITSELF FOR YEARS UPON YEARS

PEDAL

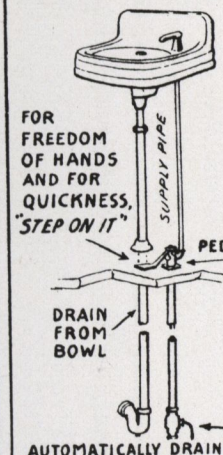


POSITION OF THE STEP WHEN VALVE IS *CLOSED*, IS NORMALLY *UP*.

HOWEVER, SHOULD IT BE DESIRED TO KEEP VALVE *OPEN*, (AS AT FILLING STATIONS IN SUMMER, USING HOSE SPRING NOZZLE CONTROL ONLY) USE THE BRASS PROP FURNISHED.

THE LAVATORY

NO WASTE - NO OVERFLOW

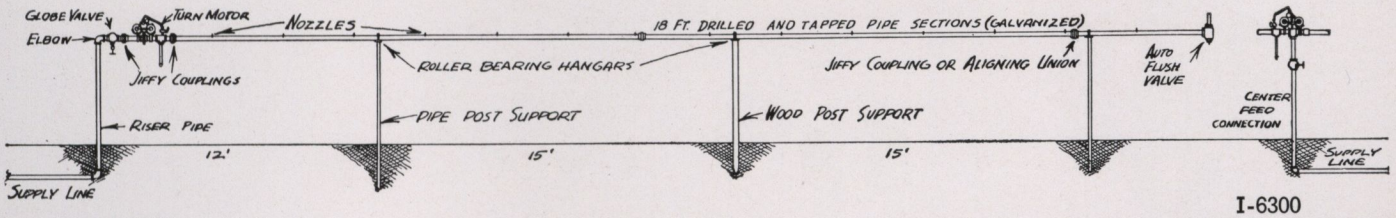


AUTOMATICALLY DRAINING SUPPLY VALVE - WHEN USER LEAVES, WATER FLOW IS AUTOMATICALLY STOPPED AND THE SERVICING PIPE EMPTIED, PREVENTING OVERFLOW *EVEN WHEN BOWL OUTLET REMAINS CLOSED.*

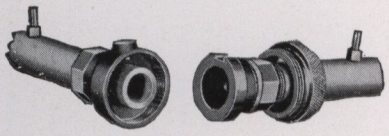
SIZES

BURY	18"	36"	48"	60"
SHIPPING WT. WHEN PACKED	10 LBS.	13 LBS.	16 LBS.	19 LBS.

MARCH COMPLETE OVERHEAD IRRIGATION LINES



6300
BRASS JIFFY COUPLING

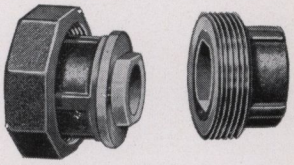


Machined brass with expansions sleeve, slot and pin type, lines up nozzles for quick moving. ¾-inch to 1½-inch pipe sizes. Requires no tools for operation. Gives perfect nozzle alignment.

STANDARD FIELD LINES are erected as above but using regular pipe couplings. Lines are spaced 50 feet apart. **Hand turned lines** use hand turning union. **Automatic lines** take proper size turn-motor. **Quick change lines** use brass jiffy couplings. **Handy shift lines** use malleable aligning unions as required. Each line waters its own length by any part of 50 feet wide.

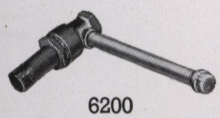
For schedule of materials required see table below. For supply lines and risers use standard galvanized pipe and fittings, and globe or angle valves with cold water discs. Use gate valves in supply lines.

I-6300
MALLEABLE ALIGNING UNION



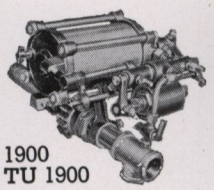
Malleable self-aligning rust-proofed gasket type—use on handy shift lines for reassembling without use of wrenches. ¾ to 1½-inch pipe sizes.

MARCH BALANCED DIRECT DRIVE HYDRAULIC TURNMOTORS

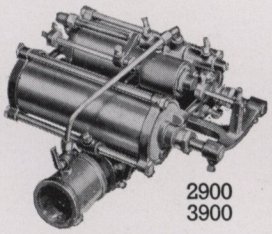


6200

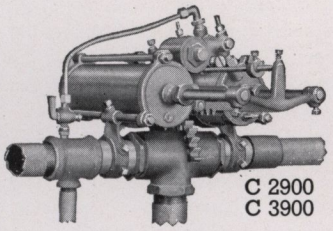
ALL BRASS TURNING UNIONS with handle. Use with hand turned lines. This item is self packing and makes a non-leaking joint between supply and irrigation line. ¾-inch to 2-inch pipe sizes.



1900
TU 1900

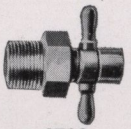


2900
3900



C 2900
C 3900

1900 turnmotors obtainable with hose coupling or with built-in turning union in ¾-inch and 1-inch size for lines up to 108 feet in length.
2900 turnmotors have 1¼-inch pipe threads for lines 108 feet to 306 feet long.
3900 turnmotors have 1½-inch pipe threads for lines over 306 feet long.
C 2900 turnmotors have 1¼-inch inlet and two 1¼-inch outlets for lines up to 306 feet. Center fed.
C 3900 turnmotors have 1½-inch inlet and two 1¼-inch outlets or 2-inch inlet and two 1½-inch outlets for center feed on lines up to 594 feet long.

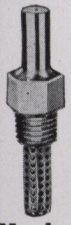


6700
Hand operated flush valve—Brass. For draining lines during and after use.

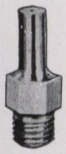


6700 A

Automatic flush valve. Brass with composition disc seat. Opens when lines are turned off. Closes when lines run, to keep nozzles free at all times.



No. 1



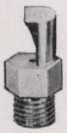
No. 2



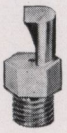
No. 3



No. 4



No. 5



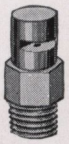
No. 6



No. 7



No. 8



No. 9

No. 1. Flexible tip nozzle with screen. Graduated orifices—Nos. A, B, C, D, F.
No. 2. Flexible tip nozzle less screen.
No. 3. Countersunk type nozzle. All nozzles take a 5/16–24 S.A.E. thread.

No. 4. Standard greenhouse nozzle. Foggy mist 4-feet to 7-feet throw.
No. 5. SLT greenhouse nozzle. Penetrating mist—8-feet to 12-feet throw.
No. 6. ELT greenhouse nozzle—2-feet spacing. Narrow hard mist—14-feet to 16-feet throw.

No. 7. Maid-O-Mist nozzle, circular fine spray—10-feet to 12-feet throw.
No. 8. Patented nozzle screen. 132 holes each smaller than nozzle hole.
No. 9. Spokane special. Flat semi-circle spray—12-feet to 15-feet diameter.

Table of the number of 18-ft. galvanized pipe sections (Fig. 8000) of each size, drilled and tapped at 3-ft. intervals and T & C, used in lines of various lengths; and of other data for layout and design of overhead irrigation lines.

Length Line	No. of Sections ¾"	1"	1¼"	1½"	Riser Size	Gallons Per Min.	Nozzles Used	Graduated A	B	C	D	F	Hangers Needed	Turn Motor	Ship Wgt.
108	6 or 6				1 "	7	36		36				7	1900	230
126		7			1 "	9	42		42				8	2900 Treat center fed lines as two single lines with proper motor for total length	260
144		8			1 "	10	48		48				9		290
162		9			1 "	12	54		42		12		11		330
180		10			1 "	13	60		42		18		12		365
198		11			1¼"	15	66		42		24		13		400
216		11	1		1¼"	16	72		42		30		14		440
234		11	2		1¼"	18	78		42		36		15		480
252		11	3		1¼"	19	84		42		42		17		520
270		11	4		1¼"	21	90		42		48		18		560
288		11	5		1¼"	22	96	42	42		12		19		600
306		11	6		1¼"	24	102	42	42		18		20		642
396		11	11		1½"	31	132	42	42		48		26	3900 Treat center fed lines as two single lines with proper motor for total length	920
414		11	10	2	1½"	33	138	48	48		42		28		970
432		11	11	2	1½"	34	144	48	48		48		29		1020
504		11	11	6	2 "	40	168	48	48		48	24	34		1215
594		11	11	11	2 "	48	198	42	42	42	42	30	40		1435



6400



6500



6600

BRASS ROLLER BEARING HANGERS

Four bearings with Brass rollers and pins.

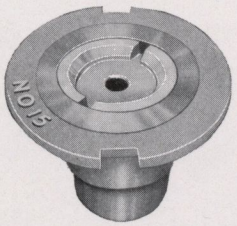
For pipe posts or tee section fence post—**6400.**

For wood posts—**6500.**

For greenhouse suspension type—**6600.**

Malleable pattern—**I6400, I6500.**

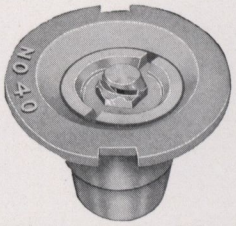
MARCH ALL BRASS FLUSH TYPE MONOGRAM SPRINKLER HEADS



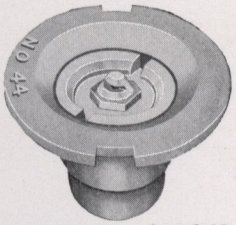
Full coverage head No. 15
½-inch female pipe thread



Self-cleaning adjustable diffuser core in No. 15 head



Half coverage head No. 40
½-inch female pipe thread



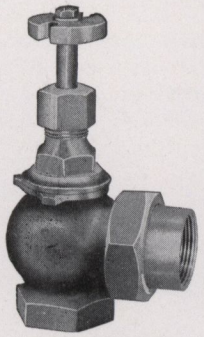
Quarter coverage head No. 44
½-inch female pipe thread

These heads are adjustable and self cleaning. They are available for the spacings indicated below, and the spacing desired should be noted in ordering, as—No. 15-10 to show a No. 15 head for 10-ft. spacing. A monogram of 15 letter spaces may be cast on heads to identify dealer or owner at a very nominal charge.

Heads are spaced to evenly, and completely water the square areas as indicated in the sample layout. Spacing is governed by the pressure available and by the physical measurements of the areas to be sprinkled. The number of heads on a circuit is limited by the size of supply as noted in the table. Careful co-ordination of the pressure and volume limitations with the use of the table information will give a perfect and economical watering system.

Union Angle valve is indispensable in making up branch circuits back to the supply. This is a brass bodied valve with cold water disc and union coupling on the outlet. Lugs on the body provide for support of Iron Protector sleeve. Has slotted disc instead of wheel for control with key.

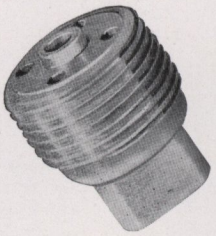
The Auto Drain has a ½-inch male pipe thread and drains when system is turned off and closes under pressure. A simple and dependable float type drain to be used at low points.



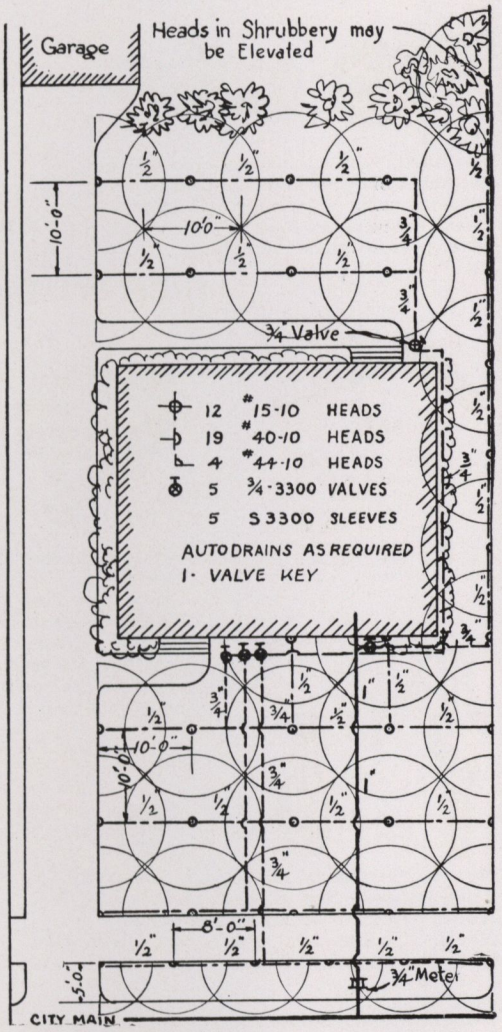
Union angle valve
3300



Protector sleeve
3300 I



Auto drain
5900
½-inch male pipe thread



POP-UP TYPE HEADS

Watering Systems with pop-up type heads are available. Information as to piping, coverage, etc., may be had from any Crane Branch or Crane Distributor. Pop-up type heads require larger piping although covering double the area. Do not use the table shown below for this type.

Connected Number of Heads on various sized pipe for Local Conditions of Supply, Spacing and Pressure

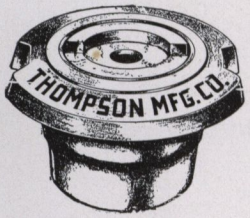
	Head No. 15												No. 40 -- Half Coverage Head											
Spacing	10'					12'				14'			16'		10'				12'			14'			16'	
Discharge per head	1.2 GPM					2 GPM				2.6 GPM			3.8 GPM		1 GPM				2.3 GPM			5 GPM			7 GPM	
Pipe Size	Static Pressure					Static Pressure				Static Pressure			Static Pressure		Static Pressure				Static Pressure			Static Pressure			Static Pressure	
	20	30	40	50	60	30	40	50	60	40	50	60	50	60	30	40	50	60	40	50	60	40	50	60	50	60
½"	3	4	5	6	7	3	3	4	5	2	3	3	2	2	6	7	8	9	2	3	4	1	1	1	50	60
¾"	6	9	12	14	15	6	7	8	9	5	6	7	4	5	12	15	17	19	6	7	8	2	3	3	1	1
1 "	14	20	25	28	30	12	15	16	18	11	12	14	8	9	24	30	33	35	15	17	18	4	5	6	4	5
1¼"	21	30	36	42	46	18	22	25	28	17	19	21	13	14	36	45	51	55	22	25	27	8	9	10	7	8
1½"	31	45	56	62	68	27	33	37	41	25	28	31	19	22	54	67	75	82	33	37	41	12	14	15	10	11
2 "	48	66	83	93	100	40	50	56	60	38	43	46	30	32	80	100	112	120	50	56	60	17	20	22	16	17

For half-coverage heads on one continuous line use 70% of number shown in above table. Main supply line is assumed one size larger than meter. If circuit is more than 50 ft. from service allow for friction loss in computing static pressure.

Thompson Sprinkling Systems

Thompson concealed lawn sprinkling systems consist of Thompson sprinkler heads, placed at intervals in the lawn, even with the surface and connected to underground piping. Each circuit is provided with a Thompson control valve, usually set in the ground, and operated with a special valve key.

ADJUSTABLE FULL-CIRCLE SPRINKLER HEAD



The brass lined body is die-casted from an alloy of zinc and copper, the nozzle-core accurately machined from brass rod. Regulation of discharge is made by screwing the nozzle up or down, without changing the character of the spray. The nozzle has built-in strainer and is easily removed for cleaning.

Nozzle Sizes

Special—For 10 ft. spacing

A—For 12-ft. spacing
B—For 14-ft. spacing
C—For 16-ft. spacing
D—For 18-ft. spacing

No. 115—SP., A, B, C or D ..... Threaded for ½-inch pipe
No. 116—SP., A, B, C or D ..... Threaded for ¾-inch pipe

Packed 10 in carton, 100 in case, wt., 52 lbs. Also 50 in case.

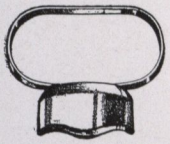
ADJUSTABLE ALL-BRASS SPRINKLER HEADS

Details of this line of sprinklers are the same as the above die-casted heads with the exception of the brass body.

No. 170—Full circle ..... For ½-inch pipe
No. 175—Half circle ..... For ½-inch pipe
No. 177—Quarter circle ..... For ½-inch pipe
No. 171—Full circle ..... For ¾-inch pipe

Packed 10 in carton, 100 in case, wt., 38 lbs. Also 50 in case.

GRASS TRIMMER



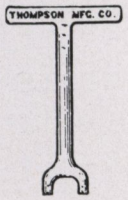
Cuts the sod neatly from around the head and eliminates grass interference with the spray.

VALVE KEYS

6-inch Shaft
30-inch Shaft
36-inch Shaft
48-inch Shaft

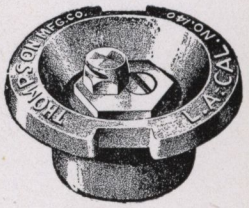
SPEED CONTROL VALVE KEY

45-inch Shaft



ADJUSTABLE HALF-CIRCLE SPRINKLER HEADS

The brass lined body is die-casted from a zinc and copper alloy. Nozzle is mounted in removable nozzle-base having built-in strainer. For use along borders of various widths as indicated below. Has outside adjustment.

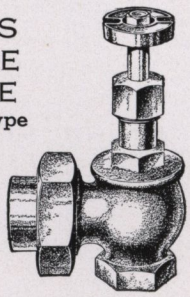


No. 140-3—(3 ft. strip) ..... For ½-inch pipe
No. 140-5—(5 ft. strip) ..... For ½-inch pipe
No. 140-12—(12 ft. strip) ..... For ½-inch pipe
No. 141-3, 141-5, 141-12 ..... For ¾-inch pipe

Packed 10 in carton, 100 in case, wt., 44 lbs. Also 50 in case.

BRASS ANGLE VALVE

Heavy Type



Complete with Union

Size	Wt. Lbs.
¾-inch	2½
1 -inch	3¼
1¼-inch	4½
1½-inch	5¾
2 -inch	8¾
2½-inch	13
3 -inch	23½

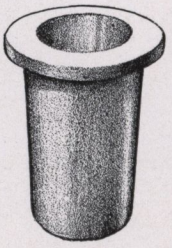
Heavy construction. Tested for 200 lbs. Full opening allows unobstructed flow of water.

BRASS ANGLE VALVE

Standard Type with Union

Size	Wt. Lbs.
¾-inch	2
1 -inch	3

VALVE SLEEVE



This sleeve is required for every sprinkler valve. Slips over the valve stem, holds back the earth and protects the valve from damage. Made of cast-iron, black-dipped. Wt. 1¼ lbs.

MAXIMUM NUMBER OF SPRINKLER HEADS THAT MAY BE OPERATED AT ONE TIME UNDER VARIOUS CONDITIONS OF SUPPLY, PRESSURE AND SPACING

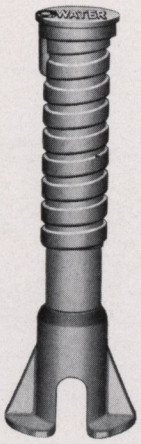
	FULL CIRCLE HEADS Nos. 115, 116, 117, 170															HALF-CIRCLE HEADS Nos. 140, 141, 175						
Nozzles	Special—1/4"					A—9/32"				B—5/16"			C—3/8"		D—15/32"	—5				—12		
Water Service — Meter — Valve — Pipe Sizes	Spaced 10' Discharge 1.2 G.P.M. Nozzle Pressure 8 lbs. Static Pressures					Spaced 12' Discharge 2 G.P.M. Nozzle Pressure 12 lbs. Static Pressures				Spaced 14' Discharge 2.6 G.P.M. Nozzle Pressure 12 lbs. Static Pressures			Spaced 16' Discharge 3.8 G.P.M. Nozzle Pressure 18 lbs. Static Pressures		Spaced 18' Discharge 5 G.P.M. Nozzle Pressure 25 lbs. Static Pressures	Spaced 10' Discharge 1 G.P.M. Nozzle Pressure 8 lbs. Static Pressures				Spaced 12' Discharge 2.3 G.P.M. Nozzle Pressure 20 lbs. Static Pressures		
	20	30	40	50	60	30	40	50	60	40	50	60	50	60	60	30	40	50	60	40	50	60
½"	3	4	5	6	7	3	3	4	5	2	3	3	2	2	2	6	7	8	9	2	3	4
¾"	6	9	12	14	15	6	7	8	9	5	6	7	4	5	4	12	15	17	19	6	7	8
1"	14	20	25	28	30	12	15	16	18	11	12	14	8	9	7	24	30	33	35	15	17	18

NOTE: The main supply line is assumed to be one pipe size larger than the street service or meter. If the sprinkling circuit is farther than 50 feet from the service, allowance must be made for loss of pressure from pipe friction.

NOTE: If sprinkler heads are to be installed in a single continuous line, use only .7 of the number shown in the above table for the various sizes of pipe or meters.

SERVICE BOXES

2½-INCH OR 3-INCH BOX



C 44100

EXTENSION SECTION



C 44106

COVERS



C 44110

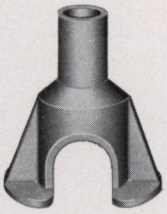


C 44112



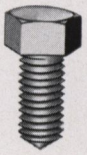
C 44114

ENLARGED BASE



C 44108

SCREW



C 44116

KEY



C 44118

SERVICE BOXES—2½-INCH DIAMETER

For Service Cocks 1¼-inch and smaller

Number	88	89A	90B	90C	91C	92C	92D	93D	93E	94E	95E	100E	100F	101F	95G	100G	101G	110G
Extension.....Inches	12	15-21	18-24	21-27	24-33	30-39	30-42	36-48	36-54	42-60	48-66	54-72	54-78	60-84	48-84	54-90	60-96	66-102

SERVICE BOXES—3-INCH DIAMETER

Number	0	1	1½	2	3	4	5	7
Extension.....Inches	10	17-22	21-28	27-39	33-48	39-58	45-66	51-72

EXTENSION SECTIONS

Number	151	152	153	154	155	156	157
Increasing length of box.....with 2½-inch Shaft, Inches	9	16	28	33	...	...	...
with 3 -inch Shaft, Inches	...	...	...	...	20	24	30

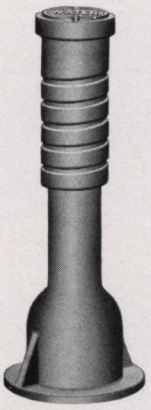
ROADWAY BOXES

OPEN BASE



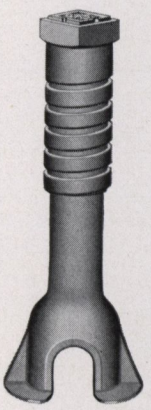
C 44160

FLANGED BASE



C 44162

SQUARE HEAD ROADWAY BOX OPEN BASE



C 44164

4¼-INCH EXTENSION SECTION



C 44166

C 44160—OPEN BASE, 4¼-INCH SHAFT

Number	140Q	141Q	142Q	142R	143R	144R	145R
Extension.....Inches	18-24	22-30	30-36	30-42	36-48	42-54	48-60

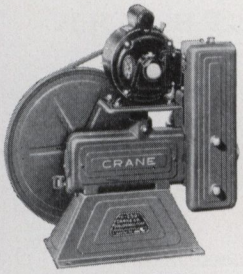
C 44162—FLANGED BASE, 4¼-INCH SHAFT

Number	40Q	41Q	42Q	42R	43R	44R	45R
Extension....Inches	18-24	22-30	30-36	30-42	36-48	42-54	48-60

C 44164—SQUARE HEAD, OPEN BASE, 4¼-INCH SHAFT

Number	137	138	140U	141S	142S	142T	143T	144T	145T
Extension, Inches	12	16	18-24	22-31	30-36	30-42	33-48	39-54	45-60

SHALLOW AND DEEP WELL PUMPS
AUTOMATIC WATER SYSTEMS



K-250—K-375

The benefits of running water are welcome and sought by everyone. The easier a dealer makes it to acquire dependable water systems the more good-will he builds for himself.

There are several reasons why CRANE water systems are profitable for a dealer to handle:

(1) Crane pumps have quality and are dependable.

(2) The line is complete with both shallow and deep well systems—with a wide range of capacities.

(3) The convenient Crane Time-Payment Plan makes it easier to buy.

(4) An adequate price range is within the reach of every pocketbook.

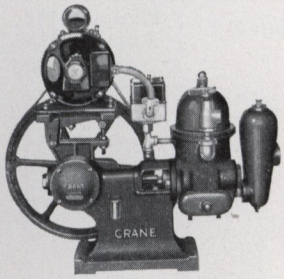
(5) Repair parts are always available.

(6) Crane has complete plumbing and heating equipment which may be installed with the water system, now or later.

The Crane pump line enables a dealer to cater to the vast domestic market effectively with profit to himself and satisfaction to his customers.



D-60



SC-25—SC-30

SELECTION OF PROPER SIZED SYSTEM

A good economic rule to follow in determining the proper size of tank and pump is to provide a tank with a storage capacity equal to ¼ of the peak demand per hour and to furnish a pump which is equal in gallons per hour capacity to the peak demand. With such a combination the pump would run for a period of only 15 minutes to replenish the storage capacity of the tank when the unit is not operating under peak demand requirements.



D-9

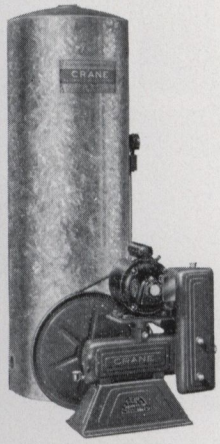
WATER REQUIREMENTS

Normal Operating Demand

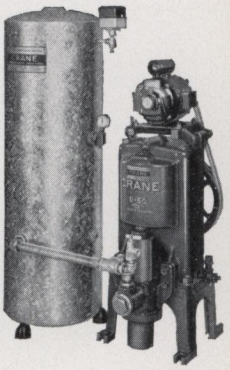
	Gallons per day
1 Person	25 — 30
1 Horse	10
1 Cow	30
1 Hog	2 — 5
1 Sheep	1½ — 3
Family of six	150
Continuous Flow Drinking Fountain	75

Peak Demands

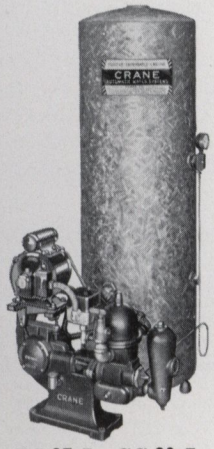
½" Hose	225 G.P.H.
¾" Hose	300 G.P.H.
Mist Spray	60 G.P.H.
Lawn Sprinkler	120 G.P.H.
Shower	5 G.P.M.—30 Gal. per Tub
Bath	10 G.P.M.—30 Gal. per Tub
Tank Closet	3 G.P.M.—5 Gal. per Flush
Flush Valve Closet	30 G.P.M.—4-6 second Flush
Laundry Tub	180 G.P.H.
Urinal	120 G.P.H.



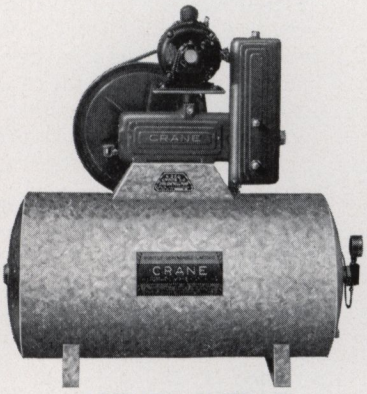
K-250 A—K-375 A



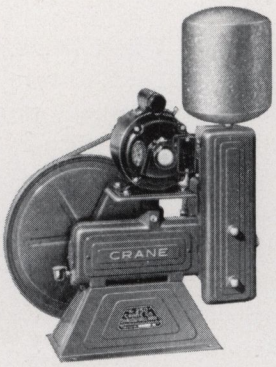
D-60 A



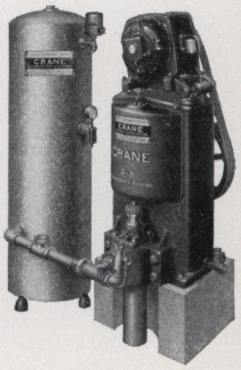
SC-25 A—SC-30 A



K-250 HT—K-375 HT
Water Systems



K-250 FW—K-375 FW
Direct Water Systems

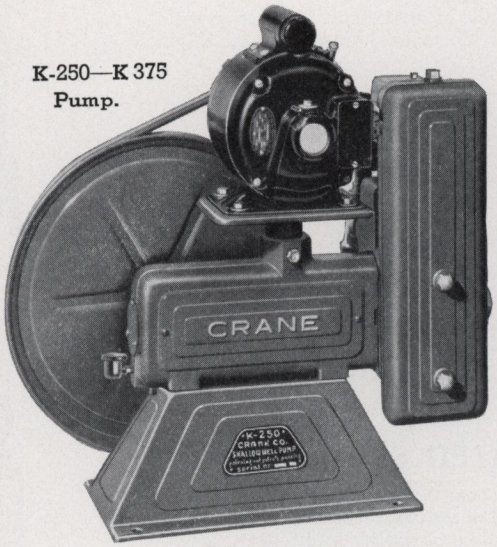


D-9 A

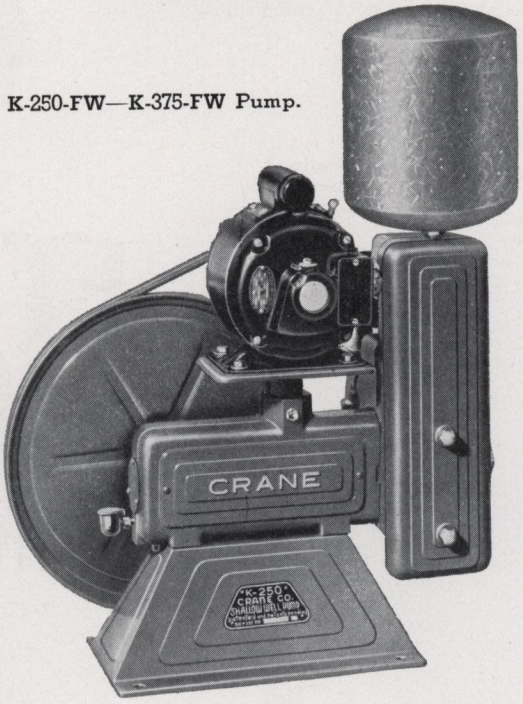
K SERIES SHALLOW WELL PUMPS AND AUTOMATIC WATER SYSTEMS

FOR SUCTION LIFTS NOT TO EXCEED 22′

K 250—250 G.P.H. 1/6 H.P. **40 Lb. Pressure** **K 375—375 G.P.H. ¼ H.P.**



K-250—K 375 Pump.



K-250-FW—K-375-FW Pump.

Fresh Water System furnished with V-Belt Drive, Relief Valve, Automatic Pressure Switch, 110 or 220 volt, single phase, 60 cycle A.C. capacitor type thermally protected motor with built-in overload protection with 2 gallon cushion tank.

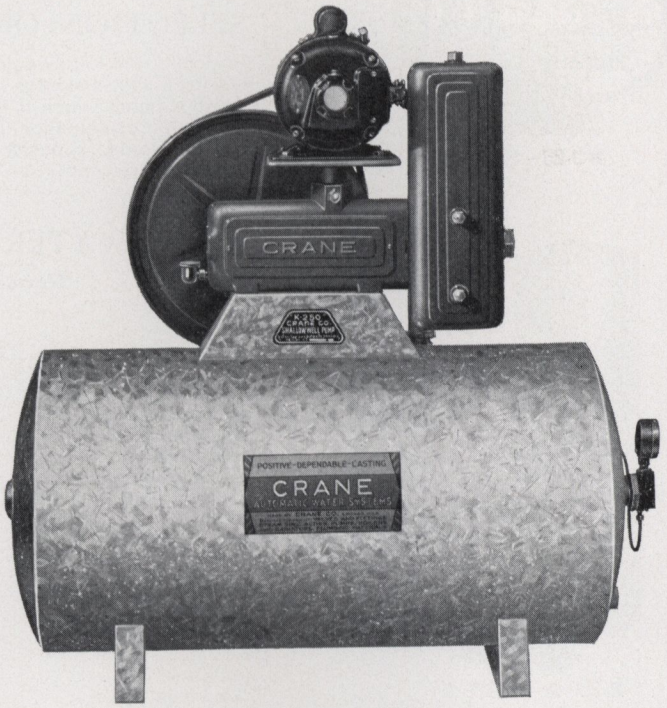
Order by system number giving **complete** motor characteristics. Motors designed for 110 or 220 volt current, not dual voltage, please specify voltage.

Pump No.	Floor Space Required	Shipping Weight, Approx. Lbs.
K-250-FW	22″ x 11″ x 22″	100
K-375-FW	22″ x 11″ x 22″	105

Pump furnished with V-Belt Drive, Automatic Pressure Switch, 110 or 220 volt, Single phase, 60 cycle, A.C. capacitor type thermally protected motor, with built-in overload protection. 25 and 50 cycle motors are available with thermal protection.

Order by Pump Number giving **complete** motor characteristics. Motors designed for 110 or 220 volt current, not dual voltage, please specify voltage.

Pump No.	Floor Space Required	Shipping Wt., Approx. Lbs.
K-250	22″ x 11″ x 22″	95
K-375	22″ x 11″ x 22″	100



K 250—K 375 Horizontal Tank System.

Horizontal Tank Systems furnished complete with Pump, V-Belt Drive, Automatic Pressure Switch, 20-40# differential, ½″ Relief Valve, Automatic Air Volume Control with pressure gauge, connecting fittings, 12 or 30 gallon galvanized horizontal tank, 110 or 220 volt, single phase, 60 cycle, A.C. capacitor type thermally protected motor, with built-in overload protection. 25 and 50 cycle units are available with thermal protection.

Order by system number giving **complete** motor characteristics. Motors designed for 110 or 220 volt current, not dual voltage, please specify voltage.

System No.	Tank Size in Gallons	Floor Space Required	Shipping Wt., Approx. Lbs.
K-250 HT-12	12	34″ x 13″ x 33″	170
K-250 HT-30	30	40″ x 17″ x 38″	210
K-375 HT-12	12	34″ x 13″ x 33″	175
K-375 HT-30	30	40″ x 17″ x 38″	215

K SERIES SHALLOW WELL VERTICAL TANK AUTOMATIC WATER SYSTEMS

FOR SUCTION LIFTS NOT TO EXCEED 22 FEET 40# MAXIMUM PRESSURE



K 250—K 375 Vertical Tank System

K 250—250 GPH
1/6 H.P. Motor

K 375—375 GPH
1/4 H.P. Motor

The K Series Pump is new, engineered along clean efficient lines demanded of modern equipment.

Its excellent performance and pleasing appearance make it peerless in its class.

Simple design with few moving parts guarantees utmost efficiency. Diamond Borized Bearings all but defy friction. Automatic lubrication ensures dependable, trouble free service.

Motors are of the capacitor type, non-radio interfering and have built-in thermal protection which prevents any danger or injury due to overloads. The entire unit is designed simply, thus assuring ready accessability to all renewable parts.

Vertical Tank Systems are furnished complete with pump, V-Belt Drive, ½" Relief Valve, Pressure Switch, Air Volume Control with Pressure Gauge, Galvanized Vertical Storage Tank, 12 to 315 gallon capacity, connecting pipe and fittings, 110 to 220 volt, single phase, 60 cycle, A.C. Capacitor type thermally protected motor.

25 and 50 cycle and D.C. units are available with thermal protection, D.C. Units have overload protection in pressure switch. Order by System Number giving complete motor characteristics. Motors designed for 110 or 220 volt current, not dual voltage, please specify voltage.

System Number	Tank Size in Gallons	Floor Space Required, Inches	Shipping Wt. Approx. Lbs.	System Number	Tank Size in Gallons	Floor Space Required, Inches	Shipping Wt. Approx. Lbs.
K-250 AA	12	22 x 27 x 26	145	K-375 AA	12	22 x 27 x 26	150
K-250 A	42	22 x 31 x 51	190	K-375 A	42	22 x 31 x 51	195
K-250 B	53	22 x 33 x 51	210	K-375 B	53	22 x 33 x 51	215
K-250 C	82	23 x 35 x 64	260	K-375 C	82	23 x 35 x 64	265
K-250 D	120	26 x 39 x 64	305	K-375 D	120	26 x 39 x 64	310
K-250 E	220	32 x 45 x 77	475	K-375 E	220	32 x 45 x 77	480
K-250 F	315	38 x 51 x 77	645	K-375 F	315	38 x 51 x 77	650

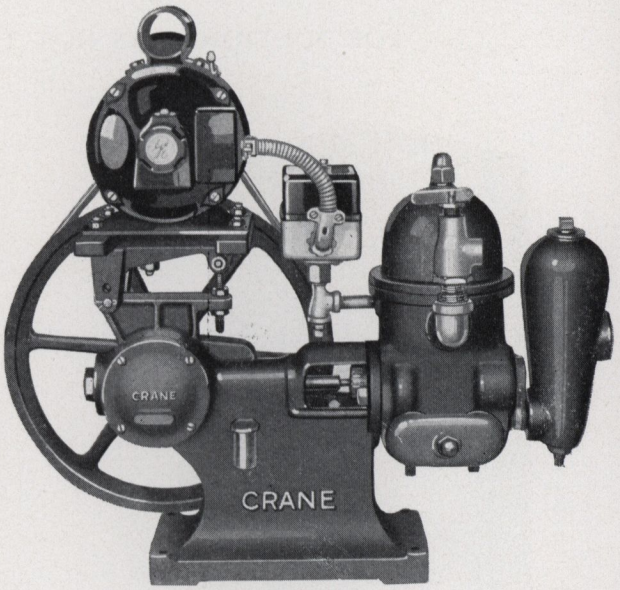
CRANE SC—25 & SC—30 SHALLOW WELL PUMPS AND AUTOMATIC WATER SYSTEMS

SC-25 250 **G.P.H.**
SC-30 300 **G.P.H.**

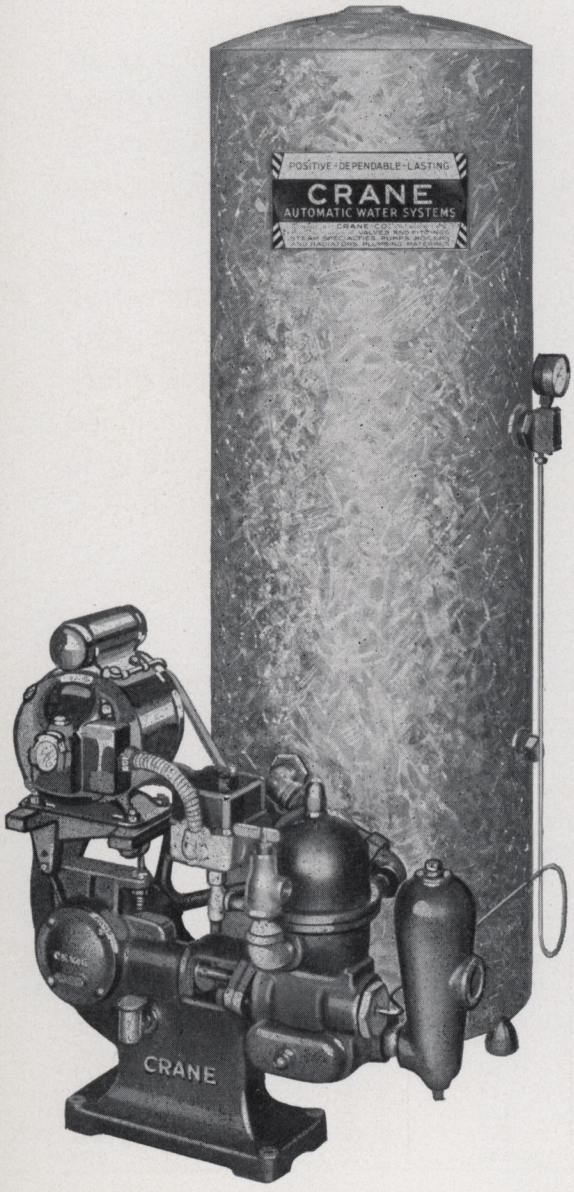
40—75 Lb. Pressures
1″ Suction—3/4″ Discharge

Pump furnished with V-Belt Drive, ½″ Relief Valve, Automatic Pressure Switch, 110 or 220 volt, single phase, 60 cycle, A.C. Thermally protected motor. Order by pump number giving complete motor specifications. 1/6 and ¼ H.P. motors for single voltage, specify if for 110 or 220 volts.

Pump Number	Floor Space Required, Inches	Motor Size, 40#	Shipping Wt. Approx. Lbs.
SC-25	22x24x12	1/6	125
SC-30	22x24x12	¼	130



1″ Suction—3/4″ Discharge



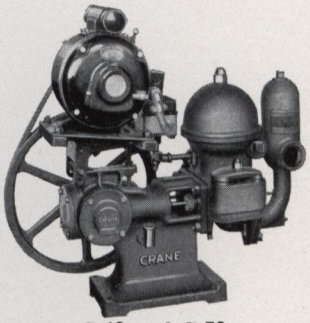
Vertical Tank Systems are furnished complete with Pump, V-Belt Drive, ½″ Relief Valve, Pressure Switch, Air Volume Control with Pressure Gauge, Galvanized Storage Tank, 42 to 315 gallon capacity, connecting pipe and fittings, 110 or 220 volt, single phase, 60 cycle, A.C. Thermally protected motor. Order by system number giving complete motor specifications. 1/6 and ¼ H.P. motors for single voltage, specify if for 110 or 220 volts.

System Number	Tank Size	Floor Space Required, Inches	Motor Size, 40#	Shipping Wt. Approx. Lbs.
SC-25-A	42	25x31x53	1/6	230
SC-25-B	53	25x33x53	1/6	250
SC-25-C	82	25x35x66	1/6	290
SC-25-D	120	25x39x66	1/6	340
SC-25-E	220	31x45x79	1/6	530
SC-25-F	315	37x51x79	1/6	680
SC-30-A	42	25x31x53	¼	235
SC-30-B	53	25x33x53	¼	255
SC-30-C	82	25x35x66	¼	300
SC-30-D	120	25x39x66	¼	350
SC-30-E	220	31x45x79	¼	535
SC-30-F	315	37x51x79	¼	690

SC-25—60#—¼ H.P. 75#—⅓ H.P.
SC-30—60#—⅓ H.P. 75#—½ H.P.

If higher pressure than 40# max. is desired, specify motor size and working pressure.

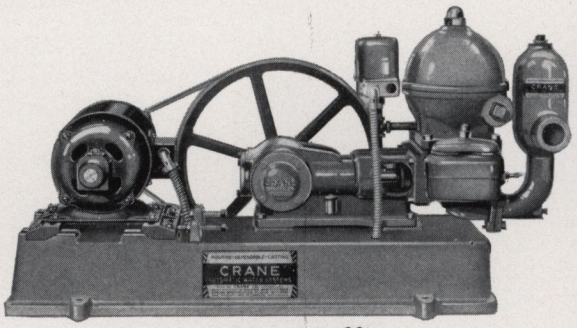
CRANE S SERIES SHALLOW WELL PUMPS AND WATER SYSTEMS



S-40—400 G.P.H.
S-50—500 G.P.H.

S-80—800 G.P.H.
S-100—1000 G.P.H.

40—75 Lb. Pressures
Maximum Suction Lift 22′



S-40 and S-50

1¼″ Suction . . . . . 1″ Discharge.

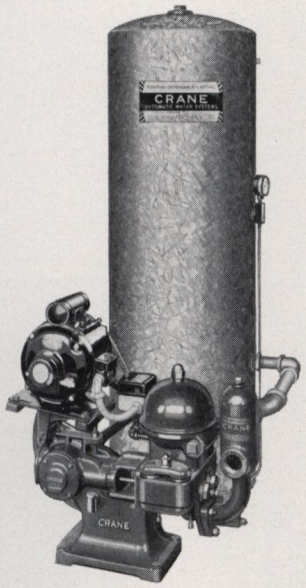
S-80 and S-100

1½″ Suction . . . . 1¼″ Discharge.

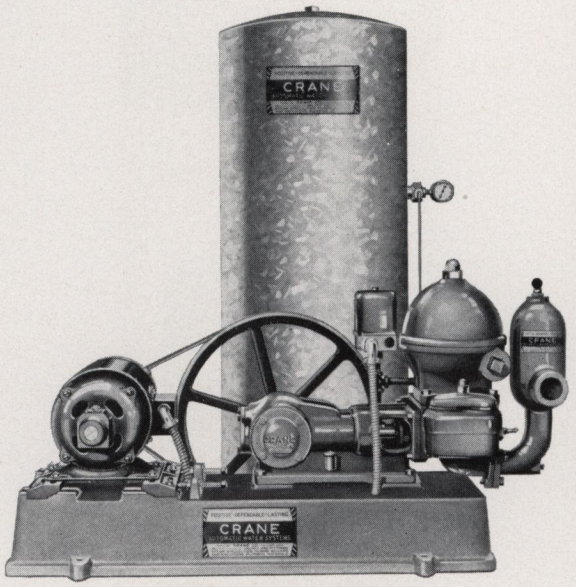
Pump furnished with V Belt Drive, Relief Valve, Pressure Switch and 110 or 220 volt, single phase, 60 cycle, A.C. Thermally Protected motor. A.C. motors up to and including ¾ H.P. are Capacitor type, Thermally protected. 1 H.P. are Repulsion Induction type with overload protection in pressure switch.

Order by Pump Number giving complete motor specifications.

Pump Number	Floor Space Required, Inches	Motor Size, 40#	Shipping Wt., Approx. Lbs.	Pump Number	Floor Space Required, Inches	Motor Size, 40#	Shipping Wt., Approx. Lbs.
S-40	24x22x16	⅓	170	S- 80	46x24x16	¾	360
S-50	24x22x16	½	180	S-100	46x24x16	1	380



S-40-A and S-50-A



S-80-A and S-100-A

Vertical Tank Systems furnished complete with Pump, V Belt Drive, Relief Valve, Pressure Switch, Air Volume Control with Pressure Gauge, Galvanized Storage Tank, 42-315 gallon capacity, connecting pipe and fittings, 110-220 volt, single phase, 60 cycle, A.C. motor. Motors up to and including ¾ H.P. are Capacitor type, Thermally protected. 1 H.P. are Repulsion Induction type with overload protection in pressure switch. Order by system number, giving complete motor specifications.

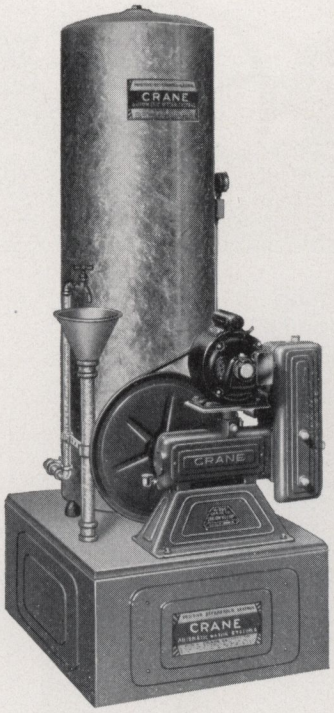
System Number	Tank Size	Floor Space Required, Inches	Motor Size, 40#	Ship'g. Wt. Approx. Lbs	System Number	Tank Size	Floor Space Required, Inches	Motor Size, 40#	Ship'.g Wt. Approx. Lbs.
S-40-A	42	32x30x53	⅓	295	S- 80-A	42	35x46x53	¾	480
S-40-B	53	34x33x53	⅓	310	S- 80-B	53	37x46x53	¾	495
S-40-C	82	36x35x65	⅓	360	S- 80-C	82	39x46x65	¾	545
S-40-D	120	40x39x65	⅓	400	S- 80-D	120	43x46x65	¾	585
S-40-E	220	46x45x77	⅓	600	S- 80-E	220	49x46x77	¾	785
S-40-F	315	52x51x77	⅓	750	S- 80-F	315	55x46x77	¾	945
S-50-A	42	32x30x53	½	315	S-100-A	42	35x46x53	1	490
S-50-B	53	34x33x53	½	330	S-100-B	53	37x46x53	1	500
S-50-C	82	36x35x65	½	380	S-100-C	82	39x46x65	1	550
S-50-D	120	40x39x65	½	400	S-100-D	120	43x46x65	1	595
S-50-E	220	46x45x77	½	605	S-100-E	220	49x46x77	1	795
S-50-F	315	52x51x77	½	760	S-100-F	315	55x46x77	1	955

S-40—60#—½ H.P. 75#—¾ H.P.
S-50—50#—½ H.P. 75#—¾ H.P.

S- 80—55#—¾ H.P. 75#—1 H.P.
S-100—55#— 1 H.P. 75#—1½ H.P.

If higher pressure than 40# maximum is desired, specify motor size and working pressure.

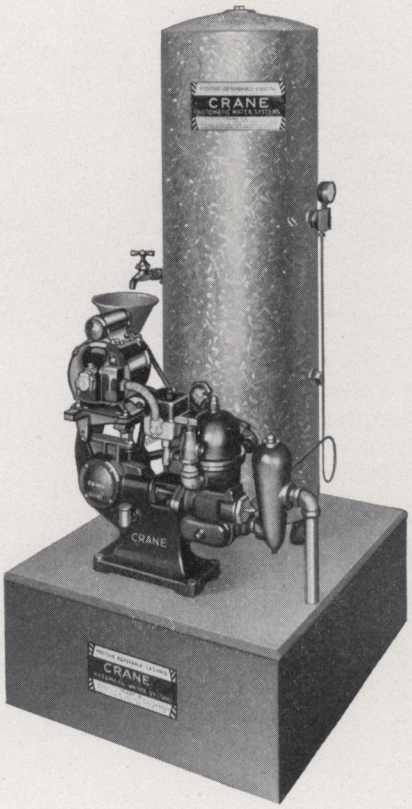
CRANE DISPLAY SYSTEMS



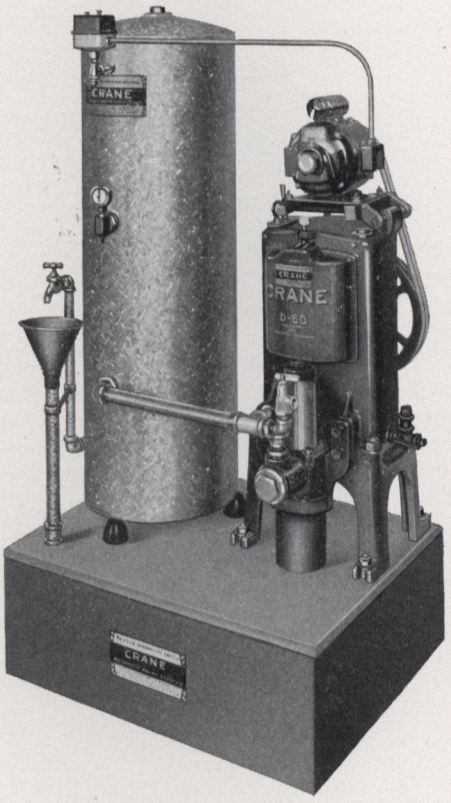
K-250 Display on base.

WATER SYSTEM DISPLAYS

Attractive operating water system displays on your floor help materially to convince the prospect of the ease with which running water can be had and of the exceptional features of Crane pumps. For this reason we have prepared for your use beautifully finished, handy display bases for both shallow well and deep well water systems. We invite you to make use of this available equipment. Consult your Crane representative about it on his next call or drop a note to your branch.

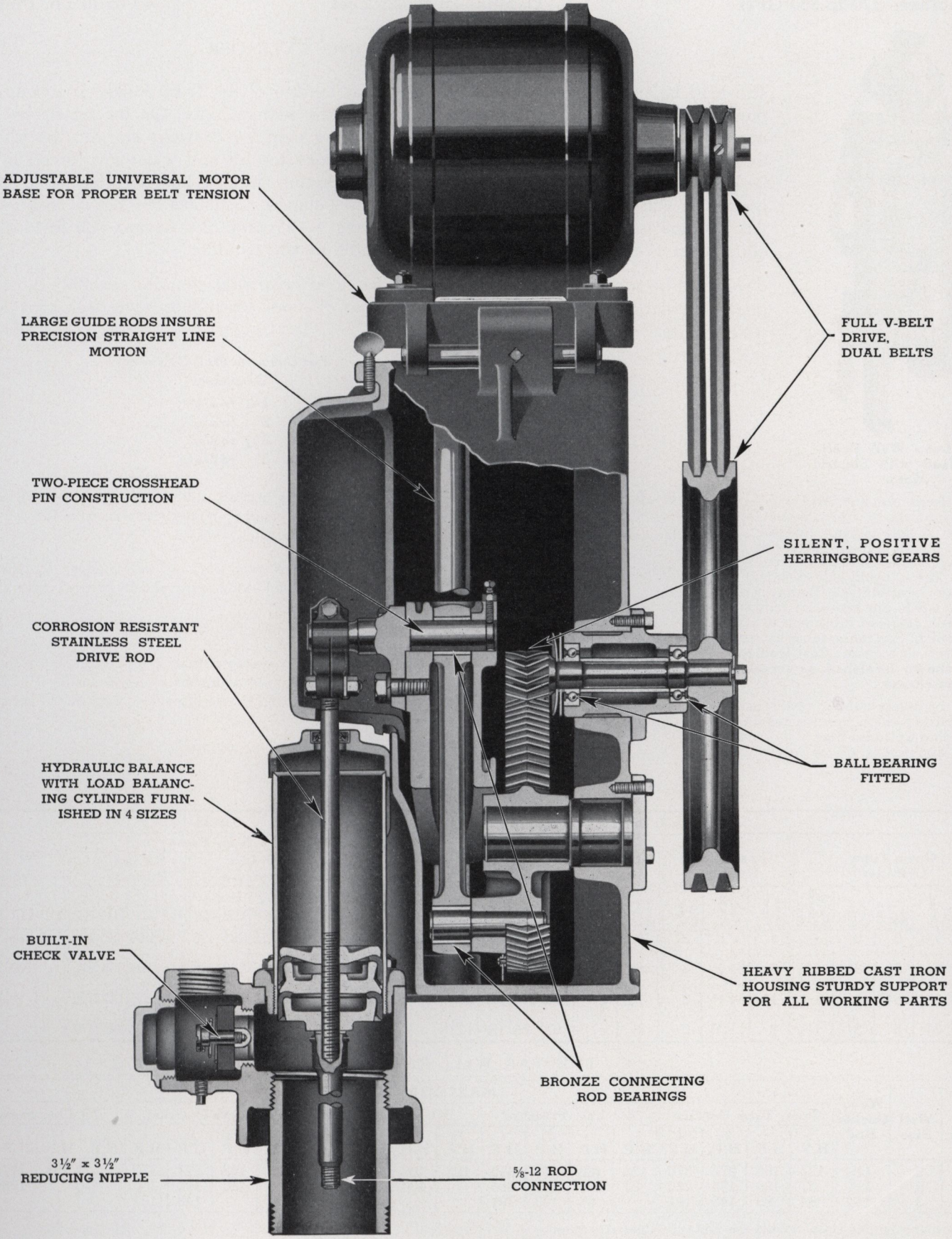


SC-25 Display on base.



D-60 Display on base.

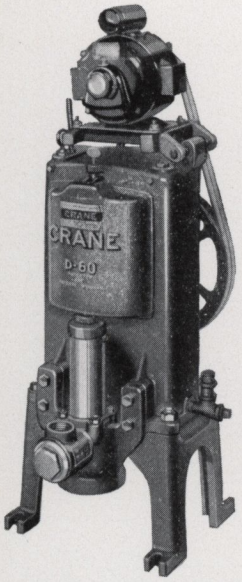
DEEP WELL PUMPS



Cut away view of the D-60 Pump

CRANE D-60 DEEP WELL PUMPS

Capacities—170 to 550 GPH **Depths—25 to 425 Feet** **40 to 75 Lb. Pressures**



D-60 Deep Well Pumping Head with Electric Motor.

D-60 Heads are furnished with Load Balancing Cylinder, Herringbone Gears, Double V-Belt Drive, Integral Air Pump, Built-In Check Valve and 110-220 volt, single phase, 60 cycle, A.C. motor. Motors up to and including ¾ H.P. are Capacitor type, Thermally protected. 1 H.P. are Repulsion Induction type with overload protection in pressure switch. See rating table for capacities and motor sizes. **Cast iron sub-base shown furnished as accessory at extra charge.**

Order by pump number, giving motor size, current characteristics and **Load Balancing Cylinder Size.** If for double acting application, please specify.

LOAD BALANCING CYLINDER

The load balancing cylinder is the outstanding feature of the D-60 Pump. It acts as an air pump in that it has a larger displacement than the well cylinder. On the up stroke of the pump a vacuum is created in the load balancing cylinder drawing air into the chamber through the air or snifter valve. On the down stroke the air and water are forced into the tank. This enables the D-60 unit to operate against higher lifts and higher discharge pressures with less horsepower. The hydraulic balance eliminates the heavy reciprocating load strains usually found in the average deep well pump not having this feature. The elimination of a stuffing box is also made possible by this cylinder.

Care must be taken in selecting the size of the load balancing cylinder assembly in order to properly balance the head. Four load balancing cylinder assemblies have been provided for well cylinder sizes shown below.

Size Load Balancing Cylinder Assembly	For Use with Well Cylinder Diameters
1 13/16"	1⅜" to 1⅞"
2¼"	2" to 2¼"
2¾"	2½" to 2¾"
3¼"	3" to 3¼"

By specifying the size load balancing cylinder assembly desired, any possible set-up can be balanced exactly. Where a tubular well is equipped with foot valve and plunger in the well pipe, the diameter of the plunger or pipe corresponds to the size well cylinder shown above.

Example 1. 265 GPH, 3½" well, 90 lift, 40 lb. pressure using 2¼" I.D. well cylinder. By referring to the preceding chart you will note that the following pump should be used, falling in 2 to 2¼" load balancing cylinder range.

1—D-60 Deep Well Head with 2¼" load balancing cylinder assembly.

Example 2. 325 GPH, 2½" tubular well, 150 lift, 40 lb. pressure using 2½" tubular well cylinder and foot valve in 2½" well pipe. By referring to the preceding chart you will note the 2½" diameter falls into the 2¾" load balancing cylinder range, therefore the pump should be specified as follows:

1—D-60 pump with 2¾" load balancing cylinder assembly.

Crane D-60 Deep Well Pumping Head—45 Strokes per Minute—6" Stroke

Open Type Cylinder					Closed Type Cylinder			Eureka Type		Maximum Lift in Feet																			
										Open Tank Service				40 Lbs. Pressure				50 Lbs. Pressure				60 Lbs. Pressure				75 Lbs. Pressure			
Gals. Per Hour	Cyl. Diam.	Min. Well Size	Drop Pipe	Wood Sucker Rod	Drop Pipe	Rod Diam.	Well Size	Drop Pipe	Well Size	⅓ HP	½ HP	¾ HP	1 HP	⅓ HP	½ HP	¾ HP	1 HP	⅓ HP	½ HP	¾ HP	1 HP	⅓ HP	½ HP	¾ HP	1 HP	⅓ HP	½ HP	¾ HP	1 HP
170	1 13/16	3	2	1⅛	1	7/16"R*	2	N	2	146	218	328	436	146	218	328	436	146	218	328	436	146	218	328	436	146	218	328	436
265	2¼	3½	2½	1⅛	1¼	⅜ P	2½	O	2½	106	159	238	318	106	159	238	318	106	159	238	318		159	238	318		159	238	318
395	2¾	4½	3	1⅛	1¼	⅜ P	3	N	3	76	114	172	228		114	172	228		114	172	228			172	228			172	228
550	3¼	5	3½	1⅛	2	1⅛W	3½	E		57	86	129	172		86	129	172			129	172			129	172				172

TUBULAR WELL RATINGS

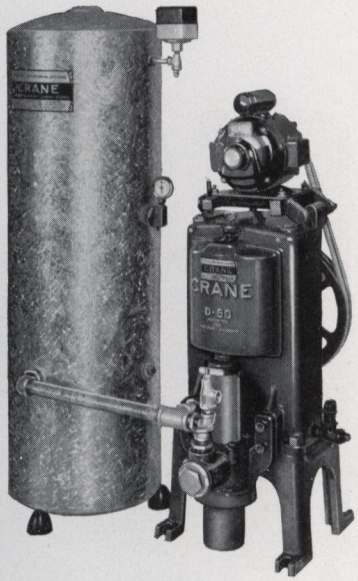
Gals. per Hour	Well Size	Wood Sucker Rod	MAXIMUM LIFT IN FEET																	
			Open Tank Service				40 Lbs. Pressure				50 Lbs. Presure				60 Lbs. Pressure				75 Lbs. Pressure			
			⅓ H.P.	½ H.P.	¾ H.P.	1 H.P.	⅓ H.P.	½ H.P.	¾ H.P.	1 H.P.	⅓ H.P.	½ H.P.	¾ H.P.	1 H.P.	⅓ H.P.	½ H.P.	¾ H.P.	1 H.P.	⅓ H.P.	½ H.P.	¾ H.P.	1 H.P.
210	2	1⅛	123	185	277	370	123	185	277	370	123	185	277	370	123	185	277	370		185	277	370
325	2½	1⅛	87	130	195	260	87	130	195	260		130	195	260		130	195	260			195	260
470	3	1⅛	64	95	143	191		95	143	191			143	191			143	191				191

For Gasoline Engine sizes, double the Electric Motor size given. *R = Steel Rod. P = Standard Pipe. W = Octagonal Wood Rod.
Approximate Sucker Rod substitutes for rods specified in above table:
1⅛" Oct. wood sucker rod = ⅜", and ½" steel pipe; ⅜" and 7/16" solid pump rod.

CRANE D-60 VERTICAL TANK DEEP WELL WATER SYSTEMS

Capacities—170 to 550 G.P.H. **Tank Sizes—42 to 315 Gallons** **40 to 75 Lb. Pressures**

D-60 Vertical Tank Deep Well Water Systems are furnished with D-60 Deep Well Pumping Head with Load Balancing Cylinder, Herringbone Gears, 2 V Belt Drive, Pressure Switch, ½" Relief Valve, Built-in Check Valve, Automatic Air Release with Pressure Gauge, 42-315 Gallon Galvanized Pressure Tank, connecting pipe and fittings, cast iron tank legs and 110-220 volt, single phase, 60 cycle, A.C. motor. Motors up to and including ¾ H.P. are Capacitor type, Thermally protected. 1 H.P. are Repulsion Induction type with overload protection in Pressure Switch. See Rating Table for capacities and motor sizes. Cast iron sub-base shown furnished as accessory at extra charge.



D-60-A System.

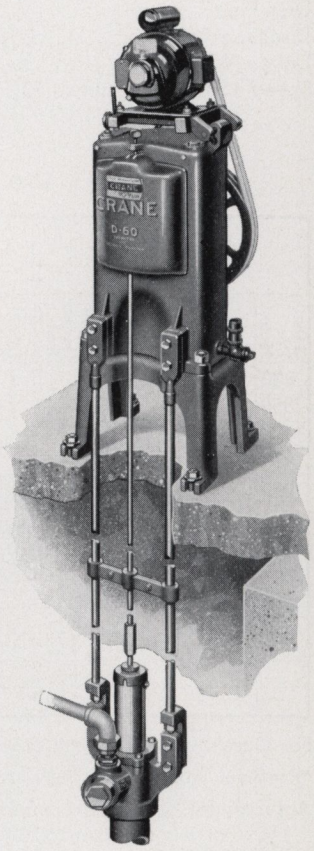
System Number	Tank Size	Floor Space Required, Ins.	Shipping Weight, Approx. Pounds
D-60-A	42	40 x 19 x 53	395
D-60-B	53	41 x 21 x 53	410
D-60-C	82	42 x 23 x 66	450
D-60-D	120	44 x 27 x 66	505
D-60-E	220	53 x 33 x 79	695
D-60-F	315	56 x 39 x 79	845

Motor Horsepower ⅓–1
Stroke ..... 6"
Drop Pipe Tapping ..... 3½"
Discharge Tapping ..... 1½"
Drive—V-Belts 2
Speed—Strokes per minute 45
Drive Rod Adaptor Coupling ..... ⅝ x 12
Oil required—3 Quarts ..... Summer—S.A.E.—50
Winter—S.A.E.—30
Max. Operating Depths ..... See table page 200-4
Shipping Weight (Head only) ..... 280 lbs.

Pipe and fittings furnished with D-60 Systems 1" I.P.S.—Relief Valve ½".

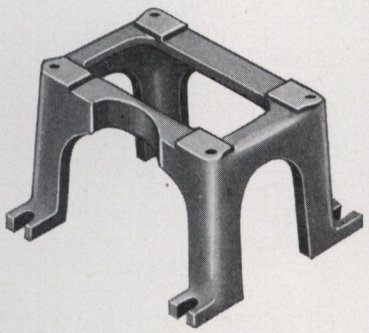
Order by system number, giving motor size, current characteristics, and Load Balancing Cylinder Size. If for double acting application please specify.

D-60 Pump with Frost Proof Anti-Freeze Attachment.



C 46070

D-60 Cast Iron Sub-Base



C 46068

This substantial cast iron base eliminates concrete foundation. Only labor required is bolting down to foundation or concrete floor. Furnished as extra.

Shipping Weight—Approx. Pounds 40

C 46070

Makes outdoor or unheated pumphouse installations practical. The coldest winter is defied with the use of this Anti-Freezing unit with deep well pumps.



D-9 Deep Well Pumping Head with Electric Motor

CRANE D-9 DEEP WELL PUMPS AND WATER SYSTEMS

Capacities—230 to 980 GPH **Lifts—25 to 500 Feet** **40 to 75 Lb. Pressures**

Crane D-9 Deep Well Pumps are furnished with Herringbone Gears, triple V-Belt Drive, Built-In Air Pump and 110-220 volt, single phase, 60 cycle, A.C. motor. See Rating Table for capacities and motor sizes.

Order by Pump Number giving motor size and complete current characteristics.

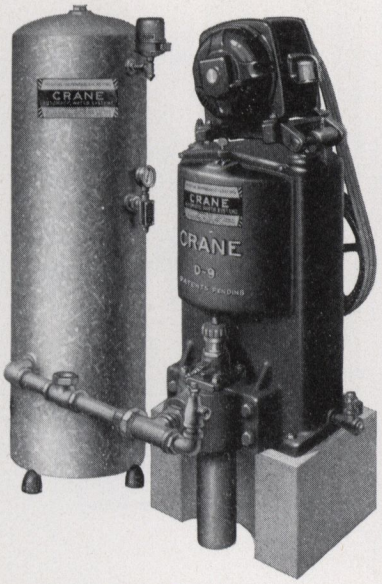
D-9 Vertical Tank Deep Well Water Systems are furnished with D-9 Deep Well Pump with Herringbone Gears, ¾" Relief Valve, Pressure Switch, Automatic Air Release with Pressure Gauge, 42-315 gallon Galvanized Tank, cast iron tank legs, connecting pipe and fittings, and 110-220 volt, single phase, 60 cycle, A.C. motor. See Rating Table for capacities and motor sizes.

System Number	Tank Size	Floor Space Required, Inches	Shipping Weight, Approx. Pounds
D-9-A	42	45x23x53	750
D-9-B	53	46x24x53	765
D-9-C	82	47x26x66	805
D-9-D	120	49x30x66	860
D-9-E	220	58x35x79	1050
D-9-F	315	61x41x79	1200

Order by system number giving motor size and complete current characteristics.

Motor Horsepower.....1-3
Stroke.....9"
Drop Pipe Tapping.....4"
Discharge Tapping.....2½"
Drive—V-Belts.....3
Speed—Strokes per minute 40

Drive Rod Adaptor Coupling.....⅞x10
Oil required—5 Quarts.....Summer—S.A.E.—50
Winter—S.A.E.—30
Max. Operating Depths.....See Table below
Shipping Weight (Head only).....545 lbs.
Pipe and fittings furnished with D-9 Systems 1¼" I.P.S.—Relief Valve ¾"



D-9-A System

CRANE D-9 DEEP WELL PUMPING HEAD—40 STROKES PER MINUTE—9" STROKE

Open Type Cylinder					Closed Type Cylinder			Eureka Type		Maximum Lift in Feet																	
										Open Tank Service				40 Lbs. Pressure				50 Lbs. Pressure				60 Lbs. Pressure				75 Lbs. Pressure			
Gals. Per Hour	Cyl. Diam.	Min. Well Size	Drop Pipe	Wood Sucker Rod	Drop Pipe	Rod Diam.	Well Size	Drop Pipe	Well Size	1 HP	1½ HP	2 HP	3 HP	1 HP	1½ HP	2 HP	3 HP	1 HP	1½ HP	2 HP	3 HP	1 HP	1½ HP	2 HP	3 HP	1 HP	1½ HP	2 HP	3 HP
230	1 13/16	3	2	1⅛	1	7/16"R*	2	N	2	328	450	—	—	263	385	—	—	247	369	—	—	231	353	—	—	207	329	—	—
350	2¼	3½	2½	1⅛	1¼	"	3	O	2½	238	—	—	—	168	—	—	—	148	—	—	—	130	—	—	—	103	—	—	—
—	—	—	—	1⅜	—	—	—	N	—	208	312	416	—	145	249	353	—	129	233	337	—	113	217	321	—	90	194	298	—
—	—	—	—	1⅝	—	—	—	E	—	188	282	376	564	131	225	319	507	117	211	305	493	102	196	290	478	81	175	269	457
525	2¾	4½	3	1⅛	1¼	7/16	3½	—	3	171	256	—	—	93	178	—	—	74	159	—	—	54	139	—	—	26	111	—	—
—	—	—	—	1⅜	—	—	—	—	—	155	232	310	—	85	162	240	—	67	144	222	—	50	127	205	—	24	101	179	—
—	—	—	—	1⅝	—	—	—	—	—	144	216	288	432	79	151	223	367	63	135	207	351	46	118	190	334	—	94	166	310
735	3¼	5	3½	1⅛	1¼	7/16	4	—	—	127	191	—	—	46	110	—	—	26	90	—	—	—	69	—	—	—	39	—	—
—	—	—	—	1⅜	—	—	—	—	—	119	179	238	—	43	103	162	—	25	85	144	—	—	66	125	—	—	38	97	—
—	—	—	—	1⅝	—	—	—	—	—	112	168	224	336	41	97	153	265	23	79	135	247	—	61	117	229	—	35	91	203
980	3¾	6	4	1⅛	1¼	7/16	4½	—	—	100	150	—	—	—	66	—	—	—	45	—	—	—	25	—	—	—	—	—	—
—	—	—	—	1⅜	—	—	—	—	—	94	141	188	—	—	62	109	—	—	42	89	—	—	—	70	—	—	—	40	—
—	—	—	—	1⅝	—	—	—	—	—	90	135	180	270	—	60	105	195	—	41	86	176	—	—	67	157	—	—	—	129

For Gasoline Engine sizes, double the Electric Motor size given.

*R = Steel Rod. P = Standard Pipe. W = Octagonal Wood Rod.

Approximate Sucker Rod substitutes for rods specified in above table:
1⅛" Oct. wood sucker rod = ⅜" pipe and ⅜" and 7/16" solid pump rod.
1⅜" Oct. wood sucker rod = ½" pipe and 7/16" solid pump rod.
1⅝" Oct. wood sucker rod = ¾" pipe and ½" and ⅝" solid pump rod.

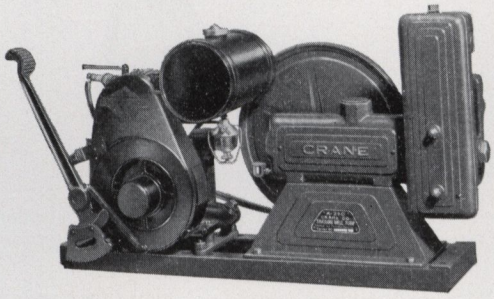
NOTE—When ordering Deep Well Pumping Systems, it is not necessary to list each item. Systems specified by symbol numbers such as D-9-A, B, C, E or F will indicate that a complete water system is wanted. These systems are furnished with or without motors. Orders should be marked accordingly. Symbols indicate vertical tank size—A-42 gal., B-53 gal., C-82 gal., D-120 gal., E-220 gal., and F-315 gal.

CRANE WATER SYSTEMS WITH GASOLINE ENGINES

SHALLOW WELL SYSTEMS

All models of CRANE Water Systems may be equipped with gasoline engines for use when electricity is not available. These engines, are strong and dependable. They are 4-cycle, single cylinder, forced air-cooled with high tension, moisture proof magnetos for easy starting. These engines are exceptionally economical to operate. A circuit breaker switch should be used to cut off engine automatically.

In selecting a storage tank for a gasoline operated water system, care should be exercised to obtain a tank large enough for a twenty-four hour supply of water.

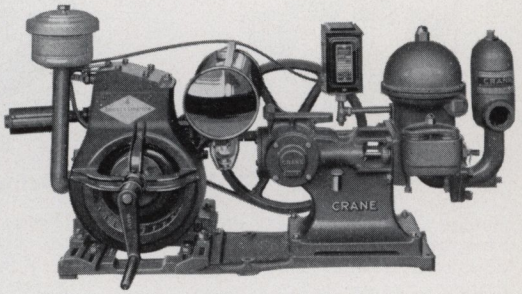


K-250-G with Gasoline Engine with Foot Pedal Starter.

The following shallow well pumps are regularly furnished with gasoline engine, combination pump and engine base, relief valve, pulley and "V" belt drive. Cut-out switch must be figured extra.

Gasoline engines of ½ H.P. are regularly furnished with foot pedal starter.

Gasoline engines of 1 H.P. are regularly furnished with hand crank starters, but can be furnished with pedal lever starter. Larger than 1 H.P. furnished with hand crank starter only.



S-40-G with Gasoline Engine with Hand Crank Starter.

Shallow Well Pumps with Gasoline Engine

Model Number	Capacity at 40 Lbs. G.P.H.	Gasoline Engine H.P.	Width Inches	Depth Inches	Length Inches	Shipping Wt. Approx. Lbs.
K-250-G	250	½	35	15	20	150
K-375-G	375	½	35	15	20	150
SC-25-G	250	½	36	12	22	195
SC-30-G	300	½	36	12	22	195
S- 40-G	400	1	36	16	22	235
S- 50-G	500	1	36	16	22	235
S- 80-G	800	1½	46	16	34	435
S-100-G	1000	2	46	16	34	435

NOTE: When selecting gasoline engine equipment, it is necessary to double the required electrical horsepower to obtain the proper rating of engine desired.

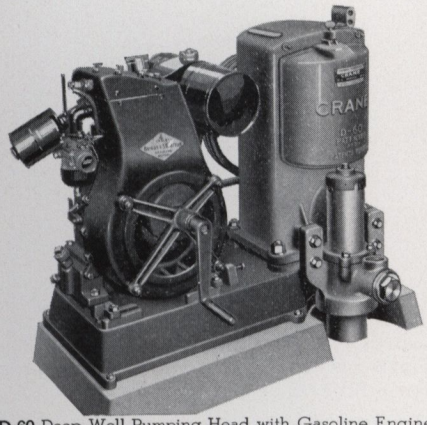
DEEP WELL SYSTEMS

Crane deep well pumping heads can be furnished with gasoline engine equipment when electricity is not available. These engines are powerful, easy starting, 4-cycle, air-cooled.

Gasoline engines 1 H.P., and 2 H.P. for D-60 heads can be mounted on universal motor base or cast iron sub-base. 3 H.P. engines on cast iron sub-base only.

Gasoline engines 2 H.P. for D-9 heads can be mounted on universal motor base or cast iron sub-base. 3 H.P. and 4 H.P. engines on cast iron sub-base only.

See adjacent pages for sizes, capacities and controls. Gasoline power provides easy and economical water delivery.



D-60 Deep Well Pumping Head with Gasoline Engine Mounted on Cast Iron Sub-base.

Deep Well Pumps with Gasoline Engine

Model Number	Gasoline Engine H.P.	Width Inches	Depth Inches	Height Inches	Ship. Wt. Approx. Lbs.
D-60-G	1	33	14	35	350
D-60-G	2	33	14	35	375
D-60-G	3	33	14	35	515
D- 9-G	2	38	17	43	650
D- 9-G	3	38	17	43	790
D- 9-G	4	38	17	43	825

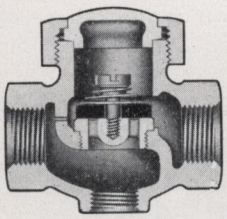


D-9 Deep Well Pumping Head with Gasoline Engine Mounted on Universal Motor Base.

NOTE: When selecting gasoline engine equipment, it is necessary to double the required electrical horsepower to obtain the proper rating of engine desired.

PUMP ACCESSORIES

CRANE COLD WATER VALVE



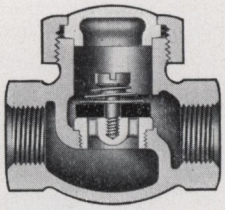
No. 25

Galvanized Iron Body

Prevents any back flow from storage tank to pump and allows fresh cold water to be drawn directly from well. This valve is highly recommended for shallow well pumping systems.

Made in ¾, 1 and 1¼″ sizes. ½″ bottom tapping.

CRANE HORIZONTAL CHECK VALVE



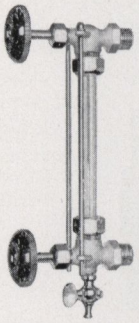
No. 25½

Galvanized Iron Body

This check valve removes the pressure strain from the deep well pumping head in water systems; when placed between the pump and storage tank.

Made in ¾ to 2″ sizes inclusive.

WATER GAUGE



C 46062

To indicate water level in pneumatic storage tank.

Furnished in ½″ size, 15⅝″ centers.

PRESSURE GAUGE

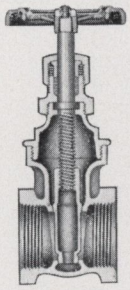


C 46064

These gauges are used for water systems up to 100 pounds pressure, ¼″ I. P. thread.

Gauges for higher pressures on application.

CRANE GATE VALVE

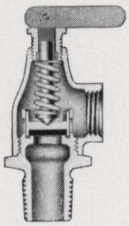


No. 449½

This is a brass wedge disc gate valve that insures least friction and obstruction in pipe line. Design prevents disc chattering in open position.

Made in sizes ½ to 2″ inclusive.

CRANE RELIEF VALVE



No. 1133½

This brass relief valve provides protection against overload. The lever handle enables quick flushing of sediment from the valve seat. The ½″ size at 50 lb. pressure will handle up to 500 gal. per hour; ¾″ size up to 1000 gal. per hour.

SPECIAL FLEXIBLE HOSE CONNECTOR



C 46065

Used in connecting metal pipe to motor units for absorbing vibrations transmitted through the piping system.

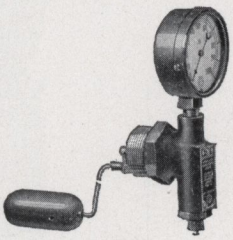
Made in sizes 1¼ x 12″, 1 x 12″, and ¾ x 12″. Hose of extra heavy linen woven quality is used. Clamps are galvanized.

AIR SNIFTER VALVE



This valve is used to permit air to enter suction line of shallow and deep well pump.
Requires equivalent to 3 ft. lift to open spring check.
When ordering specify whether wanted for deep or shallow well.

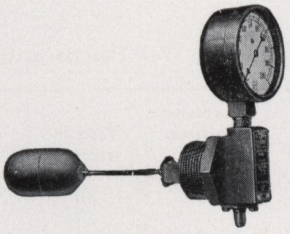
C 46066



C 45060

AIR VOLUME CONTROL WITH PRESSURE GAUGE

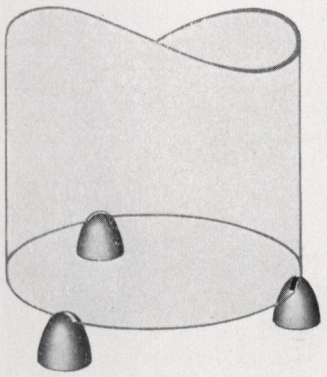
This air volume control automatically allows air to be drawn into the system when needed. This control is furnished with 54-inch long copper tubing and is used with shallow well pumps only. Requires 1¼″ I.P.S. tapping in tank.



C 45062

AUTOMATIC AIR RELEASE WITH PRESSURE GAUGE

This air release discharges any excess air from a pneumatic tank as it is accumulated. It is generally used with deep well pumping systems, but can be used with shallow well systems if air snifter valve remains open.



C 46072

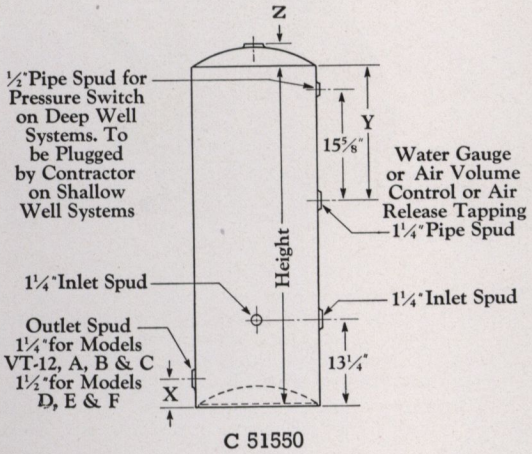
TANK LEGS

Cast iron tank legs for keeping tank from floor. Eliminates bottom of tank rusting out due to damp floor conditions.

3 to a set. Shipping weight per set, 5 pounds.

CRANE PNEUMATIC PRESSURE TANKS
FOR CRANE DOMESTIC WATER SUPPLY SYSTEMS

C 51550 Galvanized Vertical Pneumatic Storage Tanks



C 51550

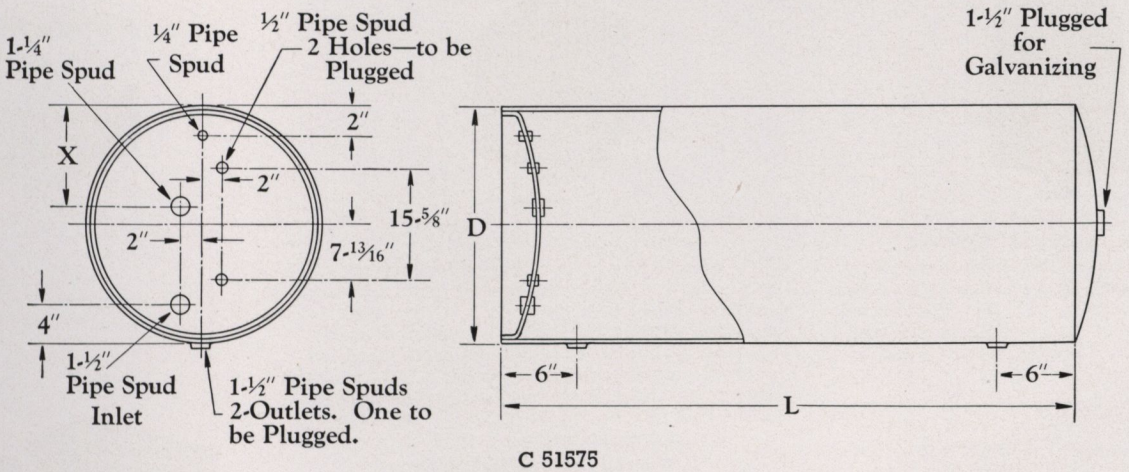
Table of General Roughing-In Measurements

Capacity Gallons	Tank Dimensions								Shipping Weight, Approx. Pounds
	Dia.	Height	X	Y	Z	Gauge of Materials ⊕ Convex Head	Concave Head	Shell	
12	12	24	3	7	2	9	9	13	50
42	16	48	4	19	3	9	9	13	100
53	18	48	4	19	3	9	9	13	115
82	20	60	4	23	4	9	9	12	155
120	24	60	4	23	4	9	8	12	210
220	30	72	6	26	5	3/16	1/4	10	400
315	36	72	6	26	5	3/16	1/4	10	550

⊕U.S.Std. Gauge.

Tapped for use with either Water Gauge or Air Volume Control.

C 51575 Steel Horizontal Storage Tanks—Black or Galvanized



C 51575

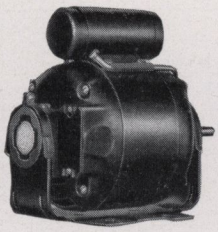
Table of General Roughing-In Measurements

Capacity Gallons	D Diameter	Tank Dimensions					Shipping Weight, Approx. Pounds	
		L Length	X	Gauge of Material Shell	Convex Head	Concave Head	Black	Galv.
120	24"	60"	10½"	12	9	8	200	210
220	30"	72"	13¼"	10	3/16	1/4	380	395
315	36"	72"	15¾"	10	3/16	1/4	490	550
365	30"	120"	13¼"	10	3/16	1/4	550	590
420	36"	96"	15¾"	10	3/16	1/4	640	680
430	42"	72"	18½"	3/16	1/4	5/16	810	875
525	36"	120"	15¾"	10	3/16	1/4	700	740
940	48"	120"	21"	3/16	1/4	5/16	1280	1390
1000	42"	168"	18½"	3/16	1/4	5/16	1530	1660

Horizontal Tanks are Tapped for 1¼" Air Release, ½" Water Gauge, ⅜" Pressure Switch and 1½" discharge in head.

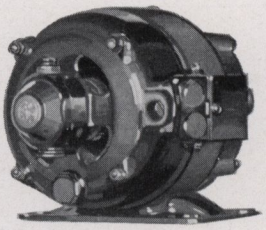
NOTE: The tanks shown on this page are not to be confused with standard pneumatic tanks for general purposes. These tanks are designed for Crane Water Systems and have special construction, dimensions, weights, tappings and prices.

PUMP ACCESSORIES
MOTOR EQUIPMENT



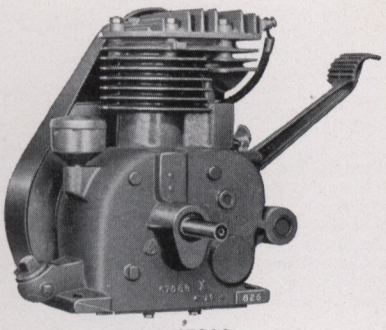
C 45022
CAPACITOR MOTOR

This type of motor has a high starting torque. It uses no brushes and is especially economical in operation. Furnished in 1/6, 1/4, 1/3, 1/2 and 3/4 horsepower sizes.



C 45026
REPULSION INDUCTION MOTOR

A motor adapted for heavy duty service. Furnished in 1/6, 1/4, 1/3, 1/2, 3/4, 1, 1 1/2, 2 and 3 horsepower sizes.

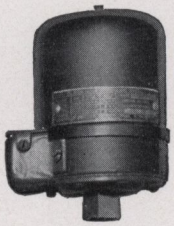


C 45030
GASOLINE ENGINE

A single cylinder, air cooled, four cycle gas engine designed especially for pump work. Easy to start and exceptionally economical to operate. Furnished in 1/2, 1, 2, 3, 4 and 6 horsepower sizes.

Foot pedal starter furnished with 1/2 H.P. engine only. Other sizes are furnished with hand crank.

SWITCHES AND AUTOMATIC CONTROL DEVICES



C 45034
AUTOMATIC PRESSURE CONTROL

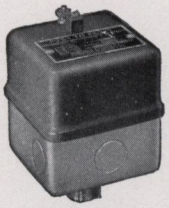
Operates pump automatically and maintains pressure at all times. Maximum working pressure 80 pounds. It has a differential setting of a 25 pound maximum and 15 pound minimum. Operates with motors up to and including the following.

Volts	D. C.	Single Phase	Double or Triple Phase
110	2 H.P.	1 1/2 H.P.	1 1/2 H.P.
220	2 H.P.	3 H.P.	5 H.P.
440-550		3 H.P.	5 H.P.



***C 45048**
MANUAL STARTER SWITCH

This manual starter switch with built-in thermal overload and low voltage protection is used for motors larger than the **C 45036** switch will operate.



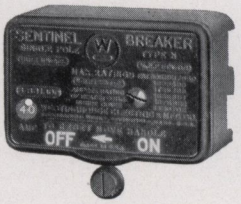
***C 45036**
AUTOMATIC PRESSURE CONTROL
WITH OVERLOAD PROTECTION

This control has built-in thermal motor protection and will operate against a maximum wotking pressure of 80 pounds. It has a differential setting of 30 pounds maximum and 15 pounds minimum when adjusted for 40 pounds working pressure.

The relay mechanism is reset by pushing down the red button in top of cover. See specifications given below.

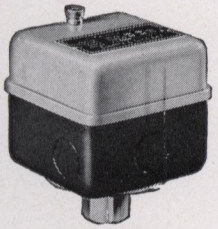
If Wanted Less Thermal Motor Protection Specify C 45037

Volts	D.C.	A.C.
32	1/3 H.P.	
110	1/2 H.P.	1 H.P.
220	1/2 H.P.	1 H.P.



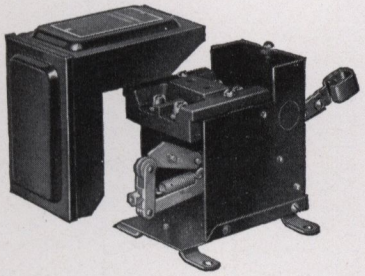
***C 45054**
TYPE "H" SENTINEL BREAKER

This device has a built-in thermal overload protection and prevents damage to motors due to overload or low voltage.



C 45038
AUTOMATIC STOP SWITCH

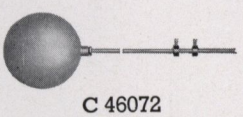
This switch is adapted for pressure service with gasoline engines. It stops the engine at the desired pressure and does not require manual reset.



C 45042
AUTOMATIC FLOAT SWITCH

A float switch for open tank service for either 2 or 3 pole accessories.

Float, rod and stops are shipped only when specified.



C 46072
FLOAT, ROD AND STOPS

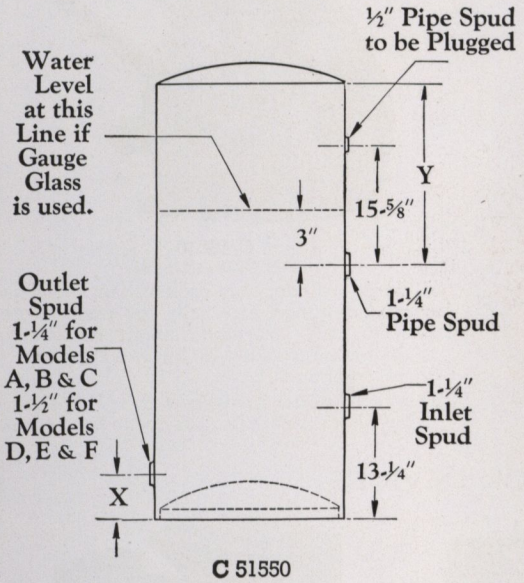
Used with **C 45042** Float Switch.

***When ordering one of these devices it is necessary to specify make, horsepower, cycle, phase, current and ampere of motor with which it is to be used.**

CRANE PNEUMATIC PRESSURE TANKS

FOR CRANE DOMESTIC WATER SUPPLY SYSTEMS

C 51550 GALVANIZED VERTICAL PNEUMATIC STORAGE TANKS



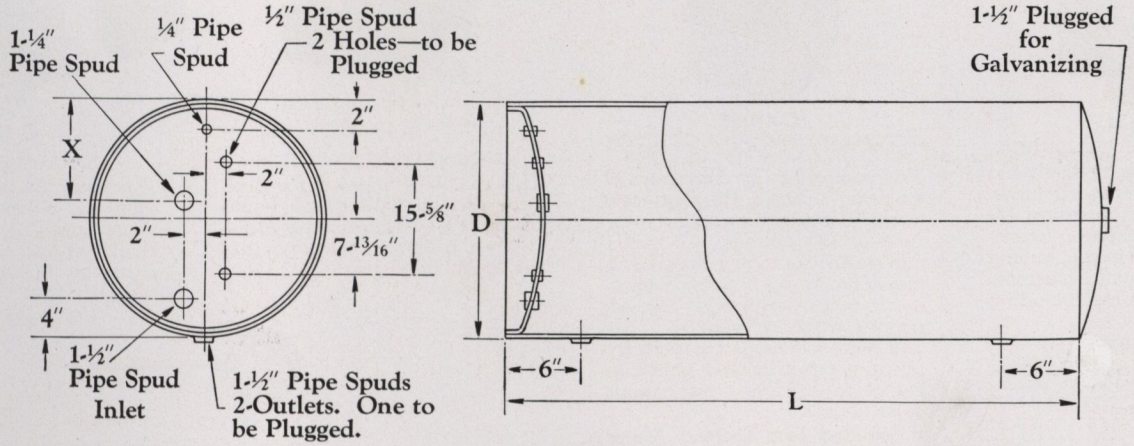
C 51550

TABLE OF GENERAL ROUGHING-IN MEASUREMENTS

Tank Model	Capacity Gallons	TANK DIMENSIONS							Approx. Shipping Weight Pounds
		Dia.	Height	X	Y	Gauge of Material			
						Shell	Convex Head	Concave Head	
A	42	16"	48	4	19	13	9	9	100
B	53	18"	48	4	19	13	9	9	115
C	82	20"	60	4	23	12	9	9	155
D	120	24"	60	4	23	12	9	8	210
E	220	30"	72	6	26	10	3/16	¼	400
F	315	36"	72	6	26	10	3/16	¼	550

Tapped for use with either Water Gauge or Air Volume Control.

C 51575 STEEL HORIZONTAL STORAGE TANKS—BLACK OR GALVANIZED



C 51575

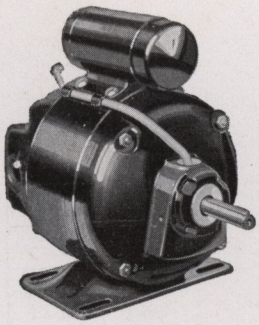
TABLE OF GENERAL ROUGHING-IN MEASUREMENTS

Capacity Gallons	D Diameter	TANK DIMENSIONS					Approx. Shipping Weight Pounds	
		L Length	X	Gauge of Material				
				Shell	Convex Head	Concave Head	Black	Galv.
120	24"	60"	10½"	12	9	8	200	210
220	30"	72"	13¼"	10	3/16	¼	380	395
315	36"	72"	15¾"	10	3/16	¼	490	550
365	30"	120"	13¼"	10	3/16	¼	550	590
420	36"	96"	15¾"	10	3/16	¼	640	680
430	42"	72"	18½"	3/16	¼	5/16	810	875
525	36"	120"	15¾"	10	3/16	¼	700	740
940	48"	120"	21	3/16	¼	5/16	1280	1390
1000	42"	168"	18½"	3/16	¼	5/16	1530	1660

Horizontal Tanks are Tapped for 1¼" Air Release, ½" Water Gauge, ⅜" Pressure Switch and 1½" discharge in head.

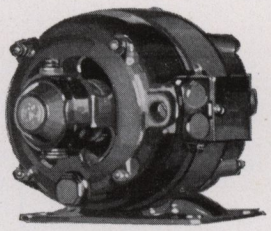
Note: The tanks shown on this page are not to be confused with standard pneumatic tanks for general purposes. These tanks are designed for Crane Water Systems and have special construction, dimensions, weights, tappings and prices.

PUMP ACCESSORIES
MOTOR EQUIPMENT



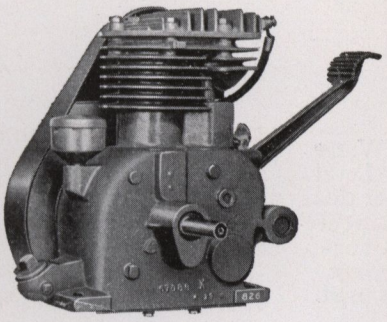
C 45022
CAPACITOR MOTOR

This type of motor has a high starting torque. It uses no brushes and is especially economical in operation. Furnished in 1/6, 1/4, 1/3, 1/2 and 3/4 horsepower sizes.



C 45026
REPULSION INDUCTION MOTOR

A motor adapted for heavy duty service. Furnished in 1/6, 1/4, 1/3, 1/2, 3/4, 1, 1 1/2, 2 and 3 horsepower sizes.

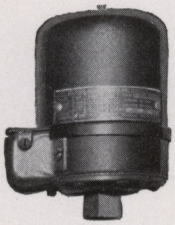


C 45030
GASOLINE ENGINE

A single cylinder, air cooled, four cycle gas engine designed especially for pump work. Easy to start and exceptionally economical to operate. Furnished in 1/2, 1, 1 1/2, 3 and 4 horsepower sizes.

Foot pedal starter furnished with 1/2 H.P. engine only. Other sizes are furnished with hand crank.

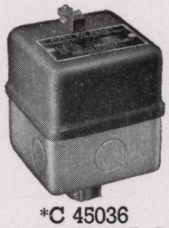
SWITCHES AND AUTOMATIC CONTROL DEVICES



C 45034
AUTOMATIC PRESSURE CONTROL

Operates pump automatically and maintains pressure at all times. Maximum working pressure 80 pounds. It has a differential setting of a 25 pound maximum and 15 pound minimum. Operates with motors up to and including the following.

Volts	D. C.	Single Phase	Double or Triple Phase
110	2 H.P.	1 1/2 H.P.	1 1/2 H.P.
220	2 H.P.	3 H.P.	5 H.P.
440-550		3 H.P.	5 H.P.



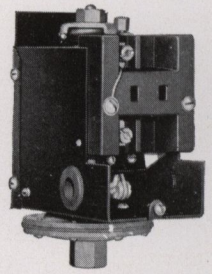
***C 45036**
AUTOMATIC PRESSURE CONTROL WITH OVERLOAD PROTECTION

This control has built-in thermal motor protection and will operate against a maximum working pressure of 80 pounds. It has a differential setting of 30 pounds maximum and 15 pounds minimum when adjusted for 40 pounds working pressure.

The relay mechanism is reset by pushing down the red button in top of cover. See specifications given below.

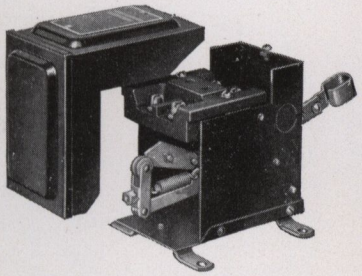
If Wanted Less Thermal Motor Protection Specify C-45037

Volts	D. C.	A. C.
32	1/3 H.P.	
110	1/2 H.P.	1 H.P.
220	1/2 H.P.	1 H.P.



C 45038
AUTOMATIC STOP SWITCH

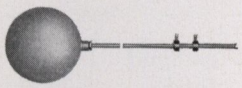
This switch is adapted for pressure service with gasoline engines. It stops the engine at the desired pressure and does not require manual reset.



C 45042
AUTOMATIC FLOAT SWITCH

A float switch for open tank service for either 2 or 3 pole accessories.

Float, rod and stops are shipped only when specified.



FLOAT, ROD AND STOPS
Used with **C 45042** Float Switch



***C 45048**
MAGNETIC STARTER SWITCH

This magnetic starter switch with built-in thermal overload and low voltage protection is used for motors larger than the **C 45034** switch will operate. It can be made automatic by using the **C 45034** switch as a pilot control.

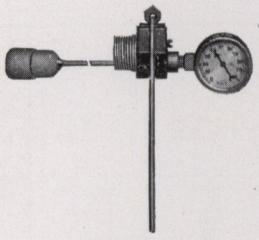


***C 45054**
TYPE "H" SENTINEL BREAKER

This device has a built-in thermal overload protection and prevents damage to motors due to overload or low voltage.

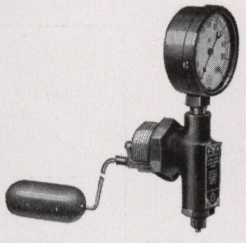
***When ordering one of these devices it is necessary to specify make, horsepower, cycle, phase, current and ampere of motor with which it is to be used.**

AIR CONTROLS



C 45060
AIR VOLUME CONTROL WITH PRESSURE GAUGE

This air volume control automatically allows air to be drawn into the system when needed. This control is furnished with 54-inch long copper tubing and is used with shallow well pumps only. Requires 1 1/4" I.P.S. tapping in tank.



C 45062
AUTOMATIC AIR RELEASE WITH PRESSURE GAUGE

This air release discharges any excess air from a pneumatic tank as it is accumulated. It is generally used with deep well pumping systems, but can be used with shallow well systems if air snifter valve remains open.

"CRANE WARLO" WATER TREATING EQUIPMENT

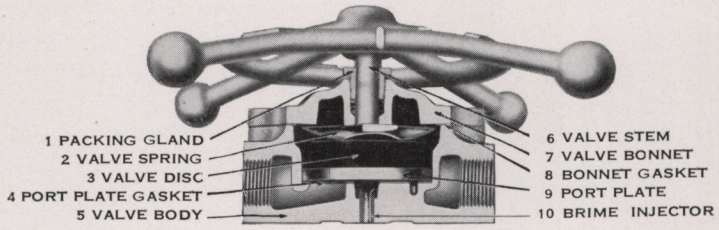
"Crane Warlo" Water Softeners and Filters of Large Capacity for Industrial Purposes are Available

A greater consciousness on the part of the public of certain objectionable water conditions has made it advisable to add more models of Standard Water Treating Equipment to the *Crane Warlo* line.

A complete line of modern water treating equipment includes Water Softeners, Sand Filters, Iron Removal Filters, Neutralizers and Activated Carbon Purifiers. There now is a *Crane Warlo* unit to meet every water problem and to suit every household need.

GENERAL SPECIFICATIONS

All softener and filter tanks, with the exception of the WFA activated carbon purifiers, are made of heavy steel, are of all welded construction and are hot dip galvanized inside and out. The pressure tanks are built for a maximum working pressure of 100 lbs. per square inch and are given a hydrostatic pressure test of 150 lbs. per square inch before shipment from the factory.



"Crane Warlo" Single Valve Control

The WFA units are made of heavy black steel and the inside of the tanks are lined with bitumastic enamel. These units are provided with a flanged head and are also built for a maximum working pressure of 100 lbs. per square inch.

All units are finished in an attractive green durable baked Dulux enamel.

All models are equipped with the *Crane Warlo* multiport single valve control, so that the regeneration or washing operations are simple 1, 2, 3 procedures. The wearing parts of the valve are loose discs easily replaceable, if necessary, without disturbing pipe connections. Complete instructions as to installation and operation are furnished with each unit.

HOW TO SELECT A WATER SOFTENER OR FILTER

If you happen to know the hardness of the water, or if an analysis is available through your city chemist, you can estimate for yourself the proper size softener needed, in the following manner. It is customary to select a softener large enough to soften at least one week's consumption of water, and preferably more. Allow 50 gallons of water daily, per person. Or look through past water bills to see how much water has been used per week (1 cubic foot equals 7½ gallons) and add 50% to take care of extra demands. When you arrive at the weekly total, read across from the hardness of the water supply in the table of capacities and choose the size that has the next larger capacity on the water supply than the total you have calculated. The water used for toilets and for sprinkling lawns or gardens need not be softened.

For example, if there are five in the family, they probably use 5 (people) x 50 (gallons) x 7 (days)—1750 gallons of water per week. Assuming that the water supply is 10 grains hard, you will find that a BT-21 will give 2100 gallons between regenerations which is ample for their needs.

Also check the flow capacity of the softener to make sure that it is ample to serve the needs of the job.

The proper size Filter, Neutralizer or Purifier is selected on a basis of its capacity in gallons per minute. Select the size unit which will deliver water at the maximum rate required. If a single unit will not meet the flow requirements, it may be necessary to use two or more units in series.

WATER ANALYSIS AND RECOMMENDATION SERVICE

The complete facilities of the Warlo Corporation are at your service to determine the water treating equipment best suited to the conditions of each job. Samples of water are analyzed free of charge and recommendations are promptly given.

Water sample bottles and shipping cartons are available to customers at all Crane Branches and Crane Wholesalers.

"CRANE WARLO" PORTABLE DEMONSTRATOR

One of the greatest handicaps in selling plumbing products is that most of them cannot be demonstrated in the prospect's home, but *Crane Warlo* Water Softeners can. A specially designed small model, good looking and easily portable, can be carried into the prospect's home and affixed to any one faucet by means of a rubber adapter. Simple, yet dramatic, tests with soft water can be made and then the prospect can prove them for himself.

This *Crane Warlo* demonstrator (Model C 1200-A illustrated) can be sold at retail, too, for use by travellers and apartment house dwellers.

This demonstrator is made of drawn brass with chromium plated finish. It is 5 inches in diameter and 16½ inches high. It weighs 12½ pounds and has a capacity of approximately 1200 grains between regenerations. Regeneration is simple, and is controlled by the valve near the base.

TABLE SHOWING
CAPACITY OF MODEL C 1200-A

Compensated hardness of water in grains per U. S. Gallon	Gallons of Soft Water per Regeneration
5	240
10	120
15	75
20	55
25	40
30	30



Model C 1200-A

"CRANE WARLO" STANDARD (DECALSO) ZEOLITE WATER SOFTENERS—ST AND BT MODELS



Model BT-20

These small models are made in two sizes only, 11,000 grains and 20,000 grains per regeneration, each size furnished with or without salt tank as desired.

These softeners are only arranged to operate **upflow** in service and are supplied with "Decalso" or manufactured zeolite. Most water supplies can be softened with this equipment where the soft water requirements are not too great, as the capacities are small as compared to the larger BT models below.

The limits of application are:—Total compensated hardnesses ranging from 6 to 40 grains per gallon, pH values from 6.8 to 8.3, turbidites up to 15 ppm, and iron up to 1.5 ppm. A special "Decalso" is used in the hardness range from 3 to 6 grains per gallon. Water analyses reports should be checked against the above limitations when figuring any of these models for prospective jobs.

SPECIFICATIONS ST AND BT MODELS

Model Number	Expressed as	ST-11	BT-11	ST-20	BT-20
Capacity	grains	11000	11000	20000	20000
Maximum permissible continuous flow rate	g.p.m.	3.5	3.5	6.25	6.25
Pipe size	inches	½	½	½	½
Height overall	inches	54	54	55	55
Floor space	inches	10x21	10x21	13x27	13x27
Salt per regeneration	pounds	8	8	14	14
Softener tank diameter	inches	9	9	12	12
Salt tank diameter	inches	.....	9	.....	12
Salt tank refill	pounds	.....	48	.....	84
Regenerations per salt refill	.....	.....	6	.....	6
Area of bed	sq. ft.	0.44	0.44	0.78	0.78
Softener mineral (Decalso)	cu. ft.	0.92	0.92	1.67	1.67
Softener gravel (3/16")	pounds	12	12	22	22
Softener gravel (⅜")	pounds	14	14	26	26
Salt tank gravel (¾")	pounds	.....	6	.....	13
Shipping weight, approximate	pounds	170	220	260	360

Special Notes:

1.—ST Models are single tank units, without salt storage tanks.
2.—BT Models are all equipped with salt storage tanks.
3.—When any of these ST or BT models are used for industrial applications where they are regenerated more often than once a week, reduce the above capacity ratings 25%.

CAPACITY IN GALLONS OF WATER THAT CAN BE SOFTENED BETWEEN REGENERATIONS

Compensated Hardness of Water in Grains per U. S. Gallon	5	10	15	20	25	30	35	40
Model ST-11, BT-11	2200	1100	730	550	440	.....	.....	.....
Model ST-20, BT-20	4000	2000	1330	1000	800	665	570	500

"CRANE WARLO" STANDARD (DECALSO) ZEOLITE WATER SOFTENERS LARGER BT MODELS

This series of models ranging in capacity from 21,000 grains per regeneration to 117,000 grains, are arranged to operate **upflow** in service and are supplied with "Decalso" or manufactured zeolite. Most water supplies can be softened with this equipment.

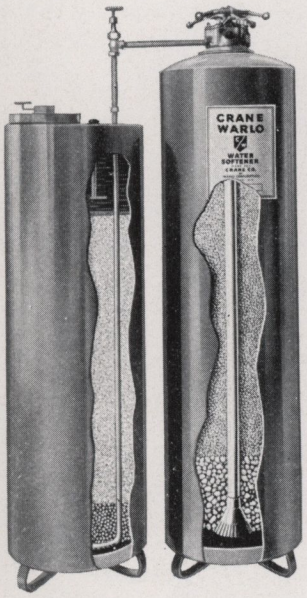
The limits of application are:—total compensated hardnesses ranging from 6 to 50 grains per gallon, pH values from 6.8 to 8.3, turbidities up to 15 ppm, and iron up to 1.5 ppm. A special "Decalso" is used in the hardness range from 3 to 6 grains per gallon.

Water analyses reports should be checked against the above limitations when figuring any of these models for prospective jobs.

By far the greatest need for water softeners is covered in this line of equipment.

SPECIFICATIONS—LARGER BT MODELS

Model Number	Expressed as	BT-21	BT-33	BT-48	BT-72	BT-117
Capacity	grains	21000	33000	48000	72000	117000
Maximum permissible continuous flow rate	g.p.m.	6.25	9.75	14	21	34
Pipe size	inches	¾	¾	1	1	1¼
Height overall	inches	59	60	61	62	64
Floor space, Single Unit	inches	13x27	16x33	19x39	23x47	30x60
Floor space, Double Unit	inches	13x45	16x54	19x63	23x75	30x96
Salt per regeneration	pounds	14	22	32	48	78
Softener tank diameter	inches	12	15	18	22	28
Salt tank diameter	inches	12	15	18	22	28
Salt tank refill	pounds	98	154	224	336	546
Regenerations per salt refill	.....	7	7	7	7	7
Area of bed	sq. ft.	0.78	1.22	1.76	2.64	4.28
Softener mineral (Decalso)	cu. ft.	1.75	2.75	4	6	9.75
Softener gravel (3/16")	pounds	35	54	77	115	186
Softener gravel (⅜")	pounds	13	22	37	62	114
Salt tank gravel (⅜")	pounds	13	22	37	62	114
Shipping weight, approximate, Single Unit	pounds	420	560	765	1125	1760
Shipping weight, approximate, Double Unit	pounds	725	970	1350	1985	3105



Model BT-33

Special Notes:

1.—Single unit softeners consist of one softener and one salt tank.
2.—Double unit softeners consist of two softeners and one salt tank.
3.—When any of these BT models are used for industrial applications where they are regenerated more often than once a week, reduce the above capacity ratings 25%.
4.—When the iron content of the water supply is between 1.5 and 3 ppm, and the water is clear as drawn indicating iron in solution, and the other conditions fall within the range of application for these models as specified above, the BT-21, 33, 48, 72 and 117 softeners can be furnished arranged for **downflow.** The specifications remain the same as for the standard upflow, units except that the downflow units require a backwash rate as specified below. The downflow units are designed as Models BTD-21, 33, 48, 72 and 117.

Model Number	Expressed as	BTD-21	BTD-33	BTD-48	BTD-72	BTD-117
Backwash rate required, for 10 min. period	g.p.m.	5 to 8	7 to 12	10 to 17	15 to 26	25 to 38

CAPACITY IN GALLONS OF WATER THAT CAN BE SOFTENED BETWEEN REGENERATIONS

Compensated Hardness of Water in Grains per U. S. Gallon	5	10	15	20	25	30	35	40	45	50
Model BT-21	4200	2100	1400	1050	840	700	600	525	465	.....
Model BT-33	6600	3300	2200	1650	1320	1100	940	825	730	660
Model BT-48	9600	4800	3200	2400	1920	1600	1370	1200	1060	960
Model BT-72	14400	7200	4800	3600	2880	2400	2060	1800	1600	1440
Model BT-117	23400	11700	7800	5850	4680	3900	3343	2925	2600	2340

"CRANE WARLO" (DECALSO) ZEOLITE WATER SOFTENERS FOR EXTREMELY HARD WATERS—BTHD MODELS

Scattered throughout the country are water supplies having hardness ranging from 50 to 110 grains per gallon. Usually these are private well supplies. The people who must use these extreme hard waters for washing purposes, or must heat these waters, have the greatest need for water softeners, Because of the extreme hardness, the zeolite in a water softener has a more difficult task to perform in removing the hardness. In other words, the water must be in contact with the zeolite for a greater length of time. To accomplish this, we have added three standard units to the *Crane Warlo* line in which the zeolite bed is 54″ deep instead of 27″ as in the usual equipment. They are arranged to operate **downflow** in service.

We do not guarantee to produce zero hard water from these units, but the hardness will be reduced to just a few grains per gallon. The water will be so greatly improved that the customer will be more than satisfied.

The limits of application are:—Total compensated hardness ranging from 10 to 110 grains per gallon, pH values from 6.8 to 8.3, turbidities up to 15 ppm, and iron up to 3.0 ppm.

SPECIFICATIONS—BTHD MODELS

Model Number	Expressed as	BTHD-42	BTHD-66	BTHD-96
Capacity	grains	42000	66000	96000
Max. perm. con. flow rate	g.p.m.	6.25	9.75	14
Backwash rate req. for 10 min. per.	g.p.m.	4 to 7	6 to 11	9 to 16
Pipe size	inches	1	1	1
Height overall	inches	92	93	94
Floor space, Single Unit	inches	25x33	28x40	31x43
Floor Space, Double Unit	inches	25x51	28x61	31x67
Salt per regeneration	pounds	28	44	64
Softener tank diameter	inches	12	15	18
Salt tank diameter	inches	18	22	22
Salt tank refill	pounds	196	308	448
Regenerations per salt refill		7	7	6
Area of bed	sq. ft.	0.78	1.22	1.76
Softener mineral (Decalso)	cu. ft.	3.5	5.5	8
Softener gravel (3/8″)	pounds	62	105	158
Salt tank gravel (3/8″)	pounds	37	62	62
Shipping wt., approx., Single Unit	pounds	815	1135	1480
Shipping wt., approx., Double Unit	pounds	1455	2005	2685

Special Notes:

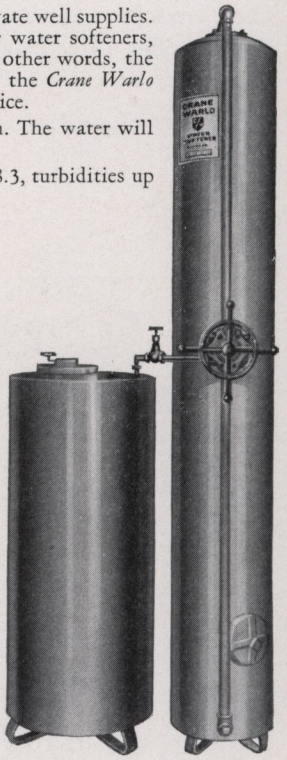
1.—Single unit softeners consist of one softener and one salt tank.

2.—Double unit softeners consist of two softeners and one salt tank.

3.—Note in particular the height of these units. If basement ceilings are not high enough, the softener can be set in a pit.

4.—Due to the height of these units the operating valve is mounted at a convenient height on the front of the softener in the piping manifold.

5.—When any of these BTHD models are used for industrial applications, where they are regenerated more often than once a week, reduce the above capacity rating 25%.



Model BTHD-42
(For extreme hard waters up to 110 grains per gallon.)

CAPACITY IN GALLONS OF WATER THAT CAN BE SOFTENED BETWEEN REGENERATIONS

Compensated Hardness of Water in Grains per U. S. Gallon	10	15	20	25	30	35	40	45	50	60	70	80	90	100	110
Model BTHD-42	4200	2800	2100	1680	1400	1200	1050	930	840	700	600	525	465	420	380
Model BTHD-66	6600	4400	3300	2640	2200	1880	1650	1465	1320	1100	940	825	730	660	600
Model BTHD-96	9600	6400	4800	3840	3200	2740	2400	2130	1920	1600	1370	1200	1065	960	870

"CRANE WARLO" (SUPER-ZEO-DUR) ZEOLITE WATER SOFTENERS FOR HIGH IRON WATERS—BTS MODELS

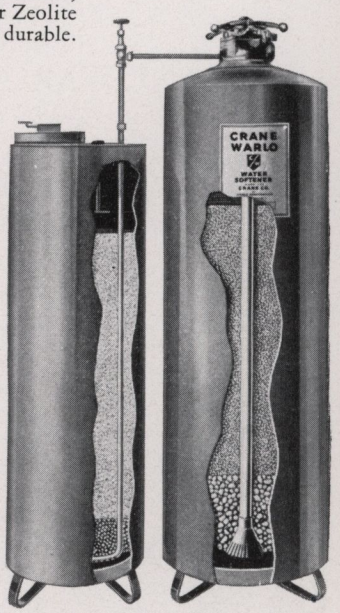
There are numerous water supplies throughout the country that have iron contents higher than is safe to use with a Decalso softener, or where the pH is too high. To meet these conditions, we now offer a line of BTS model softeners, supplied with Super-Zeo-Dur Zeolite and arranged for **downflow**. The Super-Zeo-Dur Zeolite is a specially processed neutral greensand base material, very rugged and durable.

The limits of application are: Total compensated hardness ranging from 3 to 50 grains per gallon, pH values between 6.8 and 9, turbidities up to 15 ppm, and iron up to 4.5 ppm if the water is clear as drawn, indicating iron in solution.

SPECIFICATIONS—BTS MODELS

Model Number	Expressed as	BTS-10	BTS-16	BTS-24	BTS-36	BTS-58
Capacity	grains	10000	16000	24000	36000	58000
Maximum permissible continuous flow rate	g.p.m.	6.25	9.75	14	21	34
Backwash rate required, for 10 min. period	g.p.m.	5 to 8	7 to 12	10 to 17	15 to 26	25 to 38
Pipe size	inches	3/4	3/4	1	1	1 1/4
Height overall	inches	59	60	61	62	64
Floor space, Single Unit	inches	13x27	16x30	19x36	23x43	30x53
Floor space, Double Unit	inches	13x45	16x51	19x60	23x71	30x89
Salt per regeneration	pounds	7	11	16	24	39
Softener tank diameter	inches	12	15	18	22	28
Salt tank diameter	inches	12	12	15	18	22
Salt tank refill	pounds	98	99	144	216	312
Regenerations per salt refill		14	9	9	9	8
Area of bed	sq. ft.	0.78	1.22	1.76	2.64	4.28
Softener mineral (Super-Zeo-Dur)	cu. ft.	1.75	2.75	4	6	9.75
Softener gravel (3/16″)	pounds	35	54	77	115	186
Softener gravel (3/8″)	pounds	13	22	37	62	114
Salt tank gravel (3/8″)	pounds	13	13	22	37	62
Shipping weight, approximate, Single Unit	pounds	470	610	850	1225	1915
Shipping weight, approximate, Double Unit	pounds	825	1110	1560	2270	3565

Special Notes: 1.—Single unit softeners consist of one softener and one salt tank.
2.—Double unit softeners consist of two softeners and one salt tank.



Model BTS-24
(For unusual water conditions, high iron, high pH.)

CAPACITY IN GALLONS OF WATER THAT CAN BE SOFTENED BETWEEN REGENERATIONS

Compensated Hardness of Water in Grains per U. S. Gallon	5	10	15	20	25	30	35	40	5	50
Model BTS-10	2000	1000	665	500	400	.....	.....	.....	.....	.....
Model BTS-16	3200	1600	1065	800	640	530	455	400	.....	.....
Model BTS-24	4800	2400	1600	1200	960	800	685	600	530	480
Model BTS-36	7200	3600	2400	1800	1440	1200	1025	900	800	720
Model BTS-58	11600	5800	3866	2900	2320	1933	1657	1450	1290	1160

"CRANE WARLO" (ZEO-DUR) ZEOLITE WATER SOFTENERS FOR EXTREME IRON WATERS AND ACID OR ALKALINE WATERS—BTZ MODELS

There are some water supplies in the country that have extreme iron content or are quite acid or alkaline. To meet these conditions we now offer a line of BTZ Model softeners supplied with Zeo-Dur zeolite and arranged for **downflow.** The Zeo-Dur zeolite is a processed natural greensand base material, extremely rugged and durable.

The limits of application are:—Total compensated hardness ranging from 1 to 45 grains per gallon, pH values from 6.5 to 9.0, turbidities up to 20 ppm, and iron up to 7.0 if the water is clear as drawn, indicating iron in solution.



Model BTZ-18
(For unusual water conditions, high iron, high and low pH)

SPECIFICATIONS—BTZ MODELS

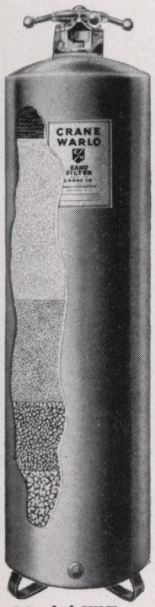
Model Number	Expressed as	BTZ-5	BTZ-8	BTZ-12	BTZ-18	BTZ-29
Capacity	grains	5000	8000	12000	18000	29000
Max. permissible cont. flow rate	g.p.m.	6.25	9.75	14	21	34
Backwash rate req., for 10 min. period	g.p.m.	5 to 8	7 to 12	10 to 17	15 to 26	25 to 38
Pipe size	inches	¾	¾	1	1	1¼
Height overall	inches	59	60	61	62	64
Floor space, Single Unit	inches	13x27	16x30	19x33	23x37	30x46
Floor space, Double Unit	inches	13x45	16x51	19x57	23x65	30x82
Salt per regeneration	pounds	4	6	8	12	20
Softener tank diameter	inches	12	15	18	22	28
Salt tank diameter	inches	12	12	12	12	15
Salt tank refill	pounds	100	96	96	96	160
Regenerations per salt refill		25	16	12	8	8
Area of bed	sq. ft.	0.78	1.22	1.76	2.64	4.28
Softener mineral (Zeo-Dur)	cu. ft.	1.75	2.75	4	6	9.75
Softener gravel (3/16")	pounds	35	54	77	115	186
Softener gravel (3/8")	pounds	13	22	37	62	114
Salt tank gravel (3/8")	pounds	13	13	13	13	22
Ship. wt., approx., Single Unit	pounds	455	590	790	1110	1710
Ship. wt., approx., Double Unit	pounds	795	1065	1465	2105	3280

Special Notes:
1.—Single unit softeners consist of one softener and one salt tank.
2.—Double unit softeners consist of two softeners and one salt tank.

CAPACITY IN GALLONS OF WATER THAT CAN BE SOFTENED BETWEEN REGENERATIONS

Compensated Hardness of Water in Grains per U. S. Gallon	5	10	15	20	25	30	35	40	45
Model BTZ-5	1000	500	330						
Model BTZ-8	1600	800	530	400					
Model BTZ-12	2400	1200	800	600	480	400			
Model BTZ-18	3600	1800	1200	900	720	600	510	450	400
Model BTZ-29	5800	2900	1933	1450	1160	966	829	725	644

"CRANE WARLO" STANDARD SAND FILTERS FOR REMOVING VISIBLE DIRT FROM WATER—WF MODELS



Model WF-12

Some water supplies are clean most of the time, but occasionally become quite muddy or turbid, particularly at the ends of city mains, or after fires. Surface water supplies from lakes or rivers may be turbid most of the time. The sand filters are available for such supplies to make the water crystal clear.

Where water supplies contain more than 15 ppm of turbidity, it is advisable to use sand filters ahead of Decalso and Super-Zeo-Dur zeolite softeners to keep the zeolite clean and efficient. If the turbidity is more than 20 ppm, a sand filter should be used ahead of a Zeo-Dur softener.

These units require occasional backwashing to remove accumulations of dirt.

SPECIFICATIONS—WF MODELS

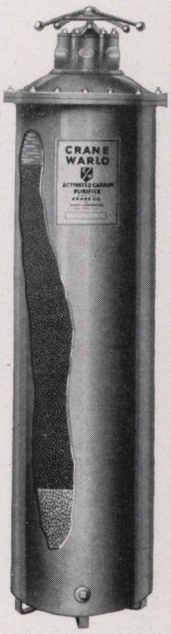
Model Number	Expressed as	WF-12	WF-15	WF-18	WF-22	WF-28
Max. permissible cont. flow rate	g.p.m.	3	5	7	10.5	17
Backwash rate req., for 10 min. period	g.p.m.	8	12	18	26	43
Pipe size	inches	¾	¾	1	1	1¼
Height overall	inches	59	60	61	62	64
Floor space	inches	14x16	17x19	20x22	24x26	30x32
Filter tank diameter	inches	12	15	18	22	28
Area of bed	sq. ft.	0.78	1.22	1.76	2.64	4.28
Coarse gravel (3/8")	pounds	48	76	114	177	300
Fine gravel (3/16")	pounds	35	54	77	115	187
Coarse sand	pounds	62	97	139	208	338
Fine sand	pounds	95	150	216	324	525
Shipping weight, approximate	pounds	395	560	790	1165	1840

"CRANE WARLO" ACTIVATED CARBON PURIFIERS FOR REMOVING BAD TASTE AND ODOR FROM WATER—WFA MODELS

Many water supplies have fishy and marshy tastes. Some water supplies which are chlorinated for protection against infection have an unpleasant residual taste. Often they have a repellent odor too.

It is to meet these conditions that this line of activated carbon purifiers are offered. The activated carbon is a highly absorbitive material and removes the taste and odor forming compounds from the water as it flows through the unit.

These units require occasional backwashing to loosen the carbon bed. If the water contains more than 20 ppm of turbidity the Purifier should be preceded by a sand filter in order to keep the carbon clean and efficient.



Model WFA-12
(For removing unpleasant taste and odor from water)

SPECIFICATIONS—WFA MODELS

Model Number	Expressed as	WFA-12	WFA-15	WFA-18	WFA-22	WFA-28
Maximum permissible continuous flow rate	g.p.m.	3	5	7	10.5	17
Backwash rate required, for 10 min. period	g.p.m.	3.9	6.1	8.8	13.2	21.4
Pipe size	inches	1	1	1	1	1¼
Height overall	inches	53	54	55	56	58
Floor space	inches	14x16	17x19	20x22	24x26	30x32
Filter tank diameter	inches	12	15	18	22	28
Area of bed	sq. ft.	0.78	1.22	1.76	2.64	4.28
Activated carbon	cu. ft.	1.75	2.75	4	6	9.75
Fine gravel (3/16")	pounds	35	54	77	115	186
Coarse gravel (3/8")	pounds	13	22	37	62	114
Shipping weight, approximate	pounds	280	370	510	740	1140

Special Notes:

1.—These units are provided with a flanged head and are lined with a bitumastic enamel applied at a temperature of 350° to 450° F. on black steel.

2.—Some times water has an objectionable taste due to a large amount of mineral in solution. This taste is a saline taste and can not be removed by an activated carbon purifier. Iron also imparts a taste to water. The Purifier will not remove iron.

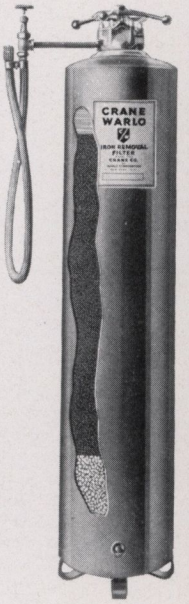
"CRANE WARLO" IRON REMOVAL FILTERS—WFM MODELS

Sometimes it is desirable to remove iron from water without softening it at the same time, as in the case of the BTS and BTZ softeners. To meet this condition we now offer a line of WFM Model Iron Removal filters.* These filters are filled with a special mineral which has the property of removing iron from water whether it is in suspension or in solution as fast as the water flows through the unit.

The equipment is simple and effective. It is necessary to backwash the unit only once a week to wash out the accumulation of iron sludge and to loosen the mineral bed. Once a month a few ounces of potassium permanganate are put in solution in a suitable container, drawn into the filter and washed through the mineral bed.

Note from the specifications below that the maximum permissible continuous flow rate of the filters is determined by the amount of iron to be removed.

***A pneumatic tank must be placed in the line preceding the filter.**

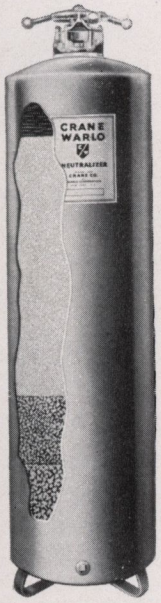


Model WFM-12

SPECIFICATIONS—WFM MODELS

Model Number	Expressed as	WFM-12	WFM-15	WFM-18	WFM-22	WFM-28
Maximum permissible continuous flow rate:						
—less than 5 p.p.m. Iron (Fe)	g.p.m.	3	5	7	10.5	17
—5 to 10 p.p.m. Iron (Fe)	g.p.m.	2.5	3.7	5.5	8	13
—more than 10 p.p.m. Iron (Fe)	g.p.m.	1.5	2.5	3.5	5.5	8.5
Backwash rate required, for 10 min. period	g.p.m.	5.5 to 8	8.5 to 12	12 to 18	18.5 to 26	30 to 43
Pipe size	inches	¾	¾	1	1	1¼
Height overall	inches	59	60	61	62	64
Floor space	inches	14x16	17x19	20x22	24x26	30x32
Filter tank diameter	inches	12	15	18	22	28
Area of bed	sq. ft.	0.78	1.22	1.76	2.64	4.28
Mineral (Manganese Zeolite)	cu. ft.	1.75	2.75	4	6	9.75
Fine gravel (3/16")	pounds	35	54	77	115	186
Coarse gravel (3/8")	pounds	13	22	37	62	114
Shipping weight, approximate	pounds	345	480	675	995	1570

"CRANE WARLO" NEUTRALIZERS TO INHIBIT CORROSION OF WATER DISTRIBUTING SYSTEMS—WFN MODELS



Model WFN-12

The presence of large amounts of free carbon-dioxide gas in solution in water often renders the water acid in character. These waters have a low pH value and are usually corrosive to iron, galvanized brass and sometimes even to copper pipe. Generally, the rate of corrosion is much greater on the hot water piping and tanks than on the cold water lines. The corrosion action is apparent when you see red rusty water coming from the hot water lines, or in the case of brass or copper pipe the water may have a greenish cast or leave green stains on the plumbing fixture under a dripping hot water faucet.

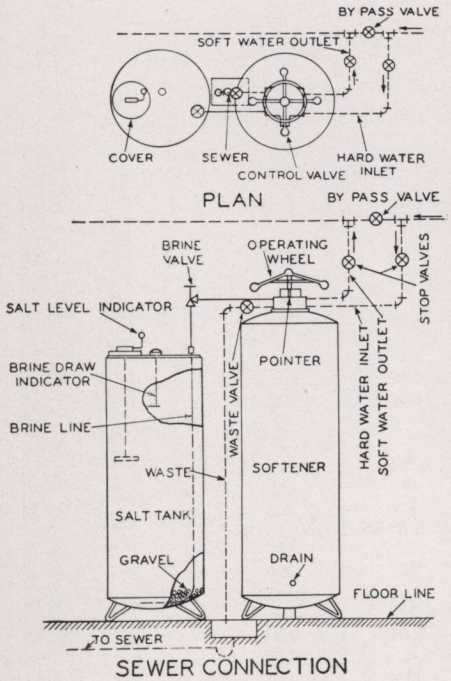
The WFN Neutralizers have been developed to make such corrosive waters less aggressive and combat this expensive corrosion. The tank is filled with a material that reacts with the acid substances in the water and neutralizes them. There is no possibility of over-treating the water. The neutralizers merely require backwashing occasionally to loosen the filling material. Only a few pounds of the filling material are consumed each year. There is an ample supply in the tank to last many years. The material is inexpensive.

SPECIFICATIONS—WFN MODELS

Model Number	Expressed as	WFN-12	WFN-15	WFN-18	WFN-22	WFN-28
Maximum permissible continuous flow rate	g.p.m.	2.5	3.5	5.5	8	13
Backwash rate required, for 10 min. period	g.p.m.	5 to 7	7 to 11	11 to 16	16 to 24	26 to 39
Pipe size	inches	¾	¾	1	1	1¼
Height overall	inches	59	60	61	62	64
Floor space	inches	14x16	17x19	20x22	24x26	30x32
Filter tank diameter	inches	12	15	18	22	28
Area of bed	sq. ft.	0.78	1.22	1.76	2.64	4.28
Mineral (Neutralite)	cu. ft.	2.14	3.36	4.84	7.26	11.77
Fine gravel (3/16")	pounds	35	54	77	115	186
Coarse gravel (⅜")	pounds	13	22	37	62	114
Shipping weight, approximate	pounds	415	595	840	1245	1970

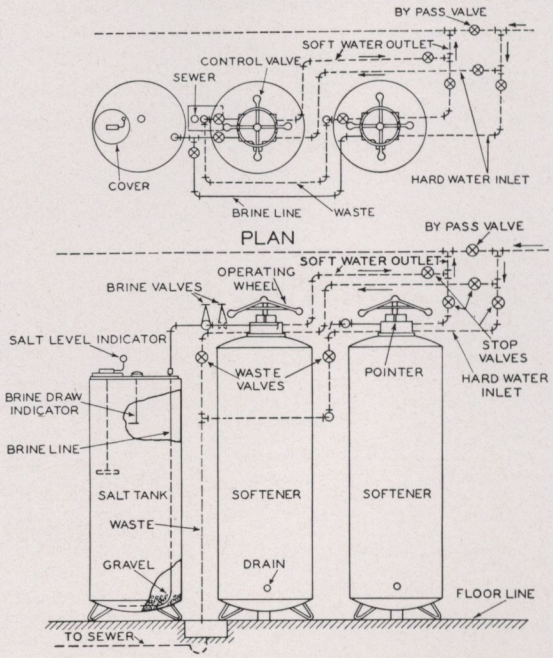
TYPICAL INSTALLATION DIAGRAMS OF "CRANE WARLO" SOFTENERS AND FILTERS

CRANE WARLO SOFTENER



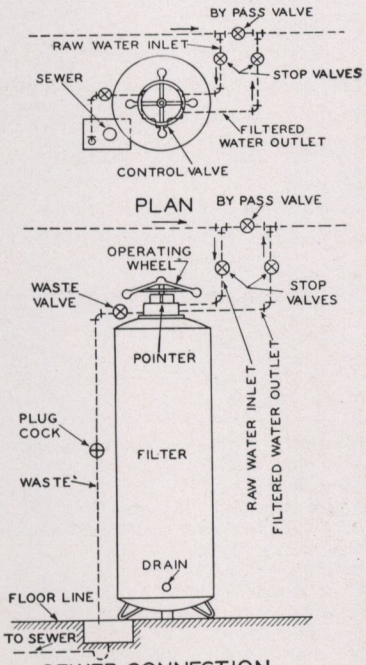
SEWER CONNECTION

Crane Warlo BT. Type Household Softener Duplex Installation



SEWER CONNECTION

CRANE WARLO FILTER



SEWER CONNECTION

NOTE—Brine pipe between salt tank and both softeners is furnished. No pipe furnished for inter-connections between softeners.

SEPTIC TANKS

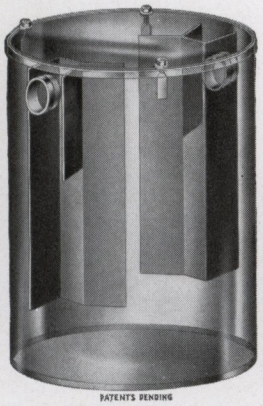
SAN-EQUIP "MASTER"



Nos. 903 and 904

The San-Equip Master Septic Tank is made of special 14 ga. copper-bearing steel—heavily coated inside and out with mineral asphalt for protection against corrosive action of moisture, acids and soil. All seams are electrically welded. The intake opening is designed to take standard 4" cast iron or tile sanitary T fitting. Outlet opening has set-in collar with stop lug.

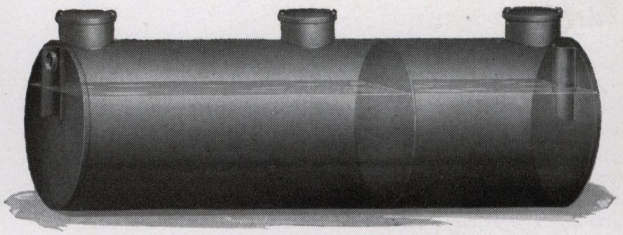
SAN-EQUIP VERTICAL



Nos. 802 to 805

The San-Equip Vertical Septic Tank has intake and outlet opening baffles designed to direct the flow of sewage within the tank to take full advantage of the entire working capacity. The resulting longer travel insures more thorough treatment and a clearer effluent.

SAN-EQUIP HORIZONTAL



Nos. 905 to 950

San-Equip Septic Tanks of 500 gallons capacity up for schools, factories, parks, hotels, etc. are horizontal type shown above. Electrically welded seams insure permanent water tight construction. Made of copper-bearing steel, rust-proofed with mineral asphalt. Nos. 905 to 925 have two manholes—larger sizes have three.

Number	Working Capacity Gallons	Number of People			Length Inches	Width Inches	Depth Inches	Shipping Weight Approx. Pounds
		*Home	School	Factory				
903	250	4 to 7	15	12	48	34	44	280
904	350	7 to 10	20	20	66	34	44	360
					Diameter		Depth	
802	200	4 to 6	15	12	38		48	220
803	300	6 to 9	25	20	48		48	285
805	500	10 to 18	35	30	52		60	390
					Diameter	Length	Gauge	
905	500	10 to 20	40	35	52	5′	14	425
910	1000	20 to 40	80	70	52	10′	12	925
915	1500	40 to 75	120	105	52	15′	12	1300
920	2000	75 to 100	165	140	68	11′ 8″	3/16″	2400
925	2500	100 to 125	210	175	68	14′ 7″	3/16″	2850
930	3000	120 to 150	250	200	68	17′ 6″	3/16″	3300
935	3500	140 to 175	290	235	68	20′ 5″	3/16″	3750
940	4000	160 to 200	330	270	68	23′ 4″	3/16″	4200
945	4500	180 to 225	370	305	68	26′ 3″	3/16″	4650
950	5000	200 to 250	410	340	68	29′ 2″	3/16″	5100

*Lower figures in home ratings column are recommended by health officials for most satisfactory service. In no instance, even for temporary use should maximum ratings shown be exceeded.

WELDED STEEL SEPTIC TANKS



C 46-110

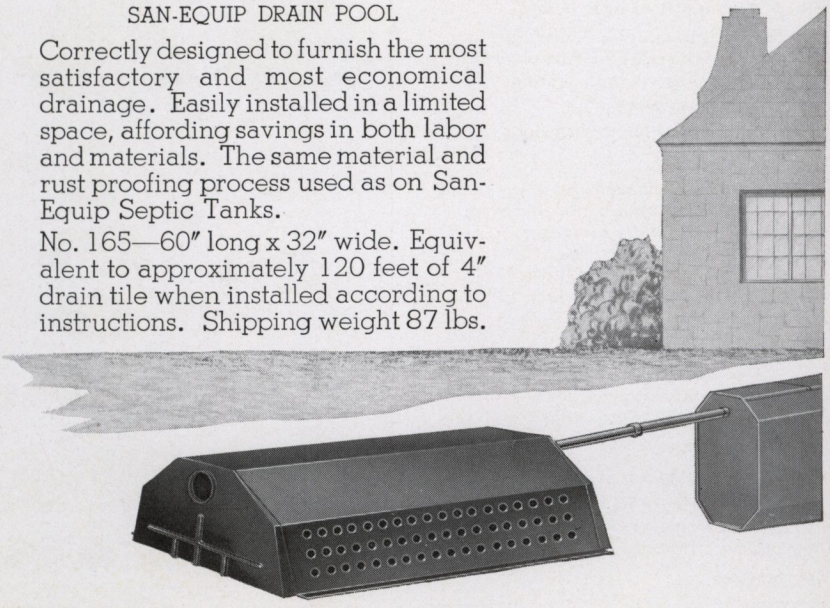
C 46-110

These septic tanks are manufactured from high quality copper-bearing steel; all seams are electrically welded. For protection against rust, acids, moisture, etc., the tanks are highly coated inside and outside with the highest grade rust-proof preservative. Available in three sizes with working capacity of 200, 300 and 500 gallons.

SAN-EQUIP DRAIN POOL

Correctly designed to furnish the most satisfactory and most economical drainage. Easily installed in a limited space, affording savings in both labor and materials. The same material and rust proofing process used as on San-Equip Septic Tanks.

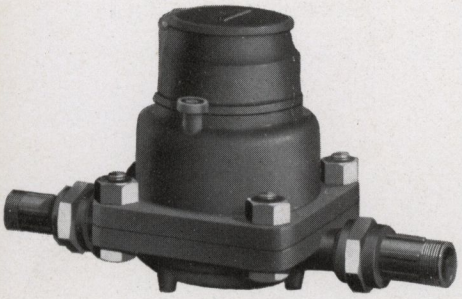
No. 165—60" long x 32" wide. Equivalent to approximately 120 feet of 4" drain tile when installed according to instructions. Shipping weight 87 lbs.



"NIAGARA" AND "AMERICAN" WATER METERS

SOLID CASING TYPE

(Illustrated with Couplings)



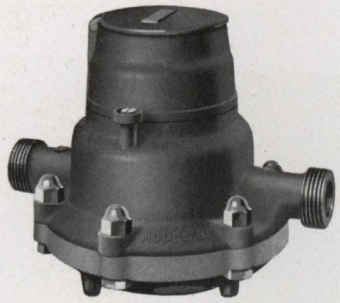
C 51-610

These water meters may have their outside casings made of zinc coated cast iron or made of bronze composition. The works within the casings are always alike and made of bronze, hard rubber and nickel silver. All submerged working bearings are protected against sand and sediment. The intermediate gears revolve on frictionless pivot bearings that prevent vertical wear and keep the gears in proper mesh. The hard rubber measuring disc is reinforced with a perforated sheet metal plate. The purchaser has option of round reading or straight reading register, indicating in cubic feet, U. S. gallons, imperial gallons or litres.

Size, Inches	Greatest Proper Capacity U. S. Gals. per Min.	Shipping Weight, Approx. Pounds
5/8x1/2	20	14
5/8x3/4	20	14
3/4	34	20
1	53	30
1 1/4	75	40
1 1/2	100	60
2	160	90
2 1/2	240	150
3	315	200
4	500	500
6	1000	870

FROST BOTTOM TYPE

(Illustrated less Couplings)



C 51-612

Meters of the frost bottom type are made in sizes up to 1-inch only and in the galvanized iron casing and the bronze casing, as listed below. The works are exactly like those in the solid case meters and are equally accessible for inspection or cleaning. When these meters "freeze up" and the ice pressure reaches 500 lbs. the frost bottom bursts and permits all parts of the disc chamber and of the intermediate gearing to separate and thereby be relieved from injurious strain. It is the only meter provided with a new disc chamber seat after each freezing. A new 5/8-inch frost bottom may be had for small cost.

Size, Inches	Greatest Proper Capacity U. S. Gals. per Min.	Ship. Wt. Approx., Meter and Couplings, Lbs.
5/8x1/2	20	12
5/8x3/4	20	12
3/4	34	17
1	53	26

Quarter bent couplings can be furnished in sizes, 1/2, 3/4, and 1-inch.

Meter Extensions 3, 4, or 5 ft. long can be furnished. "Niagara" Meters have galvanized cast iron casing. "American" Meters have bronze casing.

REPAIR PARTS

TO ORDER PARTS: Use part names given, also be sure to give METER SIZE and METER SERIAL NUMBER, which is stamped on bronze top lid. We will then check the meter size from our records, and send you just the correct size parts for your meter.



61 Round Reading Register

61b Register Dial only (Gals.)

62 Stuffing Box Nut

63 Straight Reading Register

64 Register Change Gear

65 Meter Change Gear
Idler Change Gear
When ordering change gears give diameter and number of teeth on the gear.

66 Top Intermediate Train Gear

67 First Intermediate Train Gear
With new style protected pivot bearing
With old style open bearing

68 Second Intermediate Train Gear
With new style protected pivot bearing
With old style open bearing

69 Intermediate Pinion only
Intermediate Pinion with shaft

70 Roller

71 Screw—For Change Gear
For Register Dial and Plate
For holding Register
For Register Box
For Gear Plate
For Disc Chamber

72 Intermediate Gear Pivot

73 Pinion Driver
Block and Shaft without Pinion
Block only without Shaft
With Shaft, Pinion, Block and Nut

74 Diaphragm

75 Intermediate Gear Plate Complete

75b Rubber Driving Hole Bushing with renewable Roller Post
Driver Hole Bushing only

76 Strainer

77 Bolt—With
Iron Nut for Niagara Meter Flange
Brass Cap Nut for Am. Meter Flange

78 Disc Chamber Bottom with Diaphragm

79 Disc—Diameter in Inches
Reinforced Rubber Disc for Water
Composition Disc for Hot Water
Aluminum Disc for Oil and Gasoline

80 Disc Chamber Top

81 Coupling Nut

82a Coupling Spigot—Straight

82b Coupling Spigot—Quarter Bend

83 Bronze Top Casing

83b Bronze Top Casing for Frost Bottom Type
Galv. C.I. Top Casing for Frost Bottom Type

84 Bronze Register Box—Complete
Galvanized C.I. Register Box—Complete

85 Bronze Bottom Casing
Galv. C.I. Bottom Casing for Am. Meter

85b Galv. Cast Iron Breakable Frost Bottom
Bronze Bottom for Frost Type Top Casing

86 Galv. Cast Iron Top Casing

88 Galv. C.I. Bottom Casing for Niagara Meter

89 Retaining Spring for Glass

90 Glass for Register Box

91 Casing Gasket for Solid Casing Type

91b Casing Gasket for Frost Bottom Type
Coupling Washer
Stuffing Box Washer, per 100
Extension Dial Top with Top Bearing
Extension Dial Bottom
Extension Dial Brass Rod—3 feet or less

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